



#12

SEQUENCE LISTING

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Iida, Aritoshi
Saito, Osamu

<120> Detection of Genetic Polymorphisms

<130> FORS-06904

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<170> PatentIn version 3.2

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 <400> 1413
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 <400> 1466
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 <400> 1467
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 <400> 1468
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 <210> 1473
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 <210> 1474
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 <210> 1482
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 <210> 1489
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 <210> 1490
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<212> DNA
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 <210> 1492
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 <400> 1492
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 <400> 1493
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 <210> 1494
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 <400> 1494
 tgtgggttag agctttctct ttgagacatt tttgctaagg tt 42

 <210> 1495
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 <400> 1495
 tgtgggttag agctttctct gagacatttt tgctaagggt 40

 <210> 1496
 <211> 41
 <212> DNA
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 <400> 1496
 agctgaagtg aattaagcac ratcaactca gtactcacac t 41

 <210> 1497

<211> 52
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<220>
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<222> (30)..(32)
<223> t is present or absent.

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<210> 1498
<211> 41
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<400> 1498
agagggtttc ccaagcacac yctgtgtttg gggttattgc t 41

<210> 1499
<211> 41
<212> DNA
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<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

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<210> 1500
<211> 41
<212> DNA
<213> Homo sapiens

<400> 1500
aatttcagtt tttaggtcac ycaagccagt gggagtcaca t 41

<210> 1501
<211> 53
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)..(33)
<223> a is present or absent.

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<210> 1502
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1502
 ggtttcccaa catctcatct rataaaaaaa ataatttgcc a 41

 <210> 1503
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1503
 aaagagaata ggtagtgga ytagtattcc tgtgcttaat g 41

 <210> 1504
 <211> 42
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 <213> Homo sapiens

 <220>
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 <222> (21)..(22)
 <223> ct is present or absent.

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 <210> 1505
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 <212> DNA
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 <400> 1505
 gtttggtac ttgattaaa raagaaagaa gagataataa t 41

 <210> 1506
 <211> 41
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 <400> 1506
 cctgcaccta ttctgaccta yactggggaa aacagtatgt g 41

 <210> 1507
 <211> 69
 <212> DNA
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 <400> 1507
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 tgatattca 69

<210> 1508
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 <212> DNA
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 tatttttgtag ttcaaaaagt tgctgtccat ttgatattca 40

 <210> 1509
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 <400> 1509
 agccacacgt ttcttattgc rtgggaagtt taaaaaatgg g 41

 <210> 1510
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 <212> DNA
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 <400> 1510
 agtgaacctg agattgagct rtactgaaat ctctagaaga g 41

 <210> 1511
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1511
 aaagggtggt ctttaaattcc ytatgttttt ctcattcaggt t 41

 <210> 1512
 <211> 41
 <212> DNA
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 <400> 1512
 tttctcatca gggtacaaga ygagaagaaa ggtgatggcg t 41

 <210> 1513
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1513
 acaatttata gtattttctca rtgccccaca cagttttatct a 41

 <210> 1514
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1514
 gtagatgagt agctaaaaac kaaagtcagc tcctgaaata a 41

<210> 1515
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1515
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 <210> 1516
 <211> 41
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 <400> 1516
 gggaggtgac ccatgaattt yacttgagta tcattctcaa g 41

 <210> 1517
 <211> 41
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 <400> 1517
 agaagaggta acagtaagcc kcctgattta cagcacacat c 41

 <210> 1518
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 <213> Homo sapiens

 <400> 1518
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 <210> 1519
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 <212> DNA
 <213> Homo sapiens

 <400> 1519
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 <210> 1520
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 <212> DNA
 <213> Homo sapiens

 <400> 1520
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 <210> 1521
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 <213> Homo sapiens

 <400> 1521
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<210> 1522
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 <400> 1522
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 <210> 1523
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 <210> 1524
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 <213> Homo sapiens

 <400> 1524
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 <210> 1525
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 <213> Homo sapiens

 <400> 1525
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 <210> 1526
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 <213> Homo sapiens

 <400> 1526
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 <210> 1527
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 <213> Homo sapiens

 <400> 1527
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 <210> 1528
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 <400> 1528
 agtgactgta attagtatca sttgtgcaca gagaaaaaat g 41

<210> 1529
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 <212> DNA
 <213> Homo sapiens

 <400> 1529
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 <210> 1530
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1530
 gaattcatta ataaaaataa wcacataatg gagcgtgaca t 41

 <210> 1531
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 <400> 1531
 gggccactct ttggcttggc ratagactgt ggccaatgaa a 41

 <210> 1532
 <211> 41
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 <400> 1532
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 <210> 1533
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 <223> a is present or absent.

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 <210> 1534
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 <400> 1534
 tgtttcagc aataggaat rgaggtgtct ttctctgaaa g 41

 <210> 1535
 <211> 41

<212> DNA
 <213> Homo sapiens

 <400> 1535
 gataaatgac aaggcaatta saacaatcag gaagcacagg t 41

 <210> 1536
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1536
 caaggcaatt acaacaatca rgaagcacag gttcttccca a 41

 <210> 1537
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1537
 cctcatcctt gccaatgttt ycttttactg gtttttgatg g 41

 <210> 1538
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1538
 tctaaatgac ctcaacatgg ycattaaacc aggggaaatg a 41

 <210> 1539
 <211> 41
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 <213> Homo sapiens

 <400> 1539
 atggcagtat attgatcaaa yagaaaggtg tagcatacat t 41

 <210> 1540
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 <400> 1540
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 <210> 1541
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 <213> Homo sapiens

 <400> 1541
 ttattggcct ctattttttc tgcccattgg tcaagtatga 40

 <210> 1542

<211> 41
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 <210> 1543
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 <400> 1543
 cacaattata cacattttctt ytcgtatgat tcccaagtca t 41

 <210> 1544
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 <210> 1545
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 <400> 1545
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 <210> 1546
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 <400> 1546
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 <210> 1547
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 <400> 1547
 gctgtgttgt ctaacaggag maaagagaca cggatttgct c 41

 <210> 1548
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<210> 1549
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 gtgaccaatt tttatttttg ytgaaaaatc ttatttgaag t 41

 <210> 1550
 <211> 41
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 <400> 1550
 tattgattag acaataaccc rtctggggaa gggatatttc t 41

 <210> 1551
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1551
 ccttttctaa tgtctgcaca rcctatttaa gaatattccc a 41

 <210> 1552
 <211> 52
 <212> DNA
 <213> Homo sapiens

 <220>
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 <222> (30)..(32)
 <223> t is present or absent.

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 <211> 41
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 <213> Homo sapiens

 <400> 1553
 tttctctccc caattcatgg ktttttggtt agcttctcat c 41

 <210> 1554
 <211> 41
 <212> DNA
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 <400> 1554
 tccccaatc atgggtttt kgttagcttc tcattctctt g 41

 <210> 1555
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<212> DNA
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 <400> 1555 41
 caattcatgg gtttttggtt tagcttctca tcttcttggg g

 <210> 1556
 <211> 40
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 <400> 1556 40
 caattcatgg gtttttggtt agcttctcat cttcttgggg

 <210> 1557
 <211> 52
 <212> DNA
 <213> Homo sapiens

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 <210> 1558
 <211> 52
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 <213> Homo sapiens

 <400> 1558 52
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 <210> 1559
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 <212> DNA
 <213> Homo sapiens

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 <210> 1560
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 <213> Homo sapiens

 <400> 1560 41
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 <210> 1561
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 <400> 1561 41
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 <210> 1562

<211> 41
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 <210> 1563
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 <223> t is present or absent.

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 aatatgagtt ttctaggtat rtatctagca gtgtttcaag t 41

 <210> 1567
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 <400> 1567
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 <210> 1568
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<213> Homo sapiens
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 <210> 1569
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 <210> 1570
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 <210> 1572
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 <400> 1572
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 <210> 1573
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 <210> 1574
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 <223> a is present or absent.

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<220>
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 <222> (21)..(21)
 <223> c is present or absent.

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<210> 1576
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<400> 1576
 ctgttcaatt tcctctcgca yagtgattca ttccacattc c 41

<210> 1577
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<400> 1577
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<210> 1578
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 <213> Homo sapiens

<400> 1578
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<210> 1579
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<210> 1580
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<210> 1581
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 <400> 1581
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 <210> 1582
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 <210> 1583
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 <210> 1584
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 <210> 1585
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 <210> 1586
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 <210> 1587
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 <400> 1587
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<210> 1588
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 <213> Homo sapiens

 <400> 1721
 aatcccactt attactctcc kgagagcttc aatgcctat a 41

 <210> 1722
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 <213> Homo sapiens

 <400> 1722
 ttttaagtac aagttttggt yacagtgatt tcttcttgct a 41

 <210> 1723
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 <213> Homo sapiens

 <220>
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 <223> c is present or absent.

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 <210> 1724
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<212> DNA
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 <400> 1724 41
 gaaggtagcc ctggccacct stgttggtggc tccagccgat c

 <210> 1725
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 <400> 1725 41
 cctgtgttgt ggctccagcc ratcctgtcg cccccccagt g

 <210> 1726
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 <212> DNA
 <213> Homo sapiens

 <400> 1726 41
 gctttcttat gaccttggtc matttcccag ttgtcttggt g

 <210> 1727
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 <212> DNA
 <213> Homo sapiens

 <400> 1727 41
 gagctgggct cagtttctcc ygggtcaggg tgtgatgtcg a

 <210> 1728
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 <213> Homo sapiens

 <400> 1728 41
 ggatatgatt tctgcccctc ytctgctgtg ggtaaacagc t

 <210> 1729
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 <220>
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 <222> (21)..(22)
 <223> tc is present or absent.

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 <210> 1730
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1730
 ccaataagaa tgtgcttgaa kgtttcatgc atttaatttg t 41

<210> 1731
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1731
 ctgcctgtcc acacccacag yagcttgac atcatcccca c 41

<210> 1732
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 <212> DNA
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<400> 1732
 catgaatgac tctgggaaag ratcattctt agcaatggac t 41

<210> 1733
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1733
 aaatggaatc caaacagcaa sagacctccc ctcaccggtc a 41

<210> 1734
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 <212> DNA
 <213> Homo sapiens

<400> 1734
 actgagcttc tgccaccggc ygcctgccgg ccttcatgag a 41

<210> 1735
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1735
 tccgtgtgga aggcaccttc scccagcctc agtggctagg a 41

<210> 1736
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1736
 aacctcaggc gctgcctcag scagggagcc agcctggccc c 41

<210> 1737
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1737
 aagcacgcac tgaacatgga rtgagtgagt gaacgaatga a 41

<210> 1738
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1738
 tgcccaagaa cctggtgagc yggccgggct gaggcgggca g 41

<210> 1739
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1739
 gccccttcg gtcacccttc yccgctcgag gcctcagggc c 41

<210> 1740
 <211> 42
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 <213> Homo sapiens

<220>
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 <222> (21)..(22)
 <223> ct is present or absent.

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<400> 1741
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<210> 1742
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1742
 gtagacagag ctggactcca kccttgggtg ataagggatc c 41

<210> 1743
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1743
 gccagggtca caagcagagg ygggaggagc caaggggttt g 41

<210> 1744
 <211> 41
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 <400> 1744
 acctgctgg ccccgacta ygtcctatgc agccctgaga t 41

 <210> 1745
 <211> 41
 <212> DNA
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 <400> 1745
 tgcgggcatt gctgggctgc rgcgtgtggc cattgggggc c 41

 <210> 1746
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1746
 ccagggctcc agggctcagc rtgctaagat gaactcccat c 41

 <210> 1747
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1747
 atgaactccc atcccaccac yggctatcct gaaaggctgt a 41

 <210> 1748
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1748
 gaccaaggctc gggggattct ytgtgtccca caggccctga g 41

 <210> 1749
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1749
 cagccaggctg ggggtgcggc ygggctgggc agggtcagga g 41

 <210> 1750
 <211> 41
 <212> DNA
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 <400> 1750
 caggagcccg cagtgggcag yacaagtggg ggcagcaggg g 41

<210> 1751
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1751
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 <210> 1752
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1752
 atcctgatgg gggtcaaggc rgcctcacgc acatcctgtt c 41

 <210> 1753
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1753
 gtgctgaccc agaccagcag ygggggcttc tgtgggaacg a 41

 <210> 1754
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1754
 tcccaggccc ccgagctgac mcttcttggt ggccgtggcc c 41

 <210> 1755
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1755
 aggctcccca agcctgggtc yctcttgccc ccaccactc t 41

 <210> 1756
 <211> 41
 <212> DNA
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 <400> 1756
 ccgcaatcgc cgcgccgcct raggatgctg ctggtggcca t 41

 <210> 1757
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1757
 cgctcccaac catgagagcc raggtgggag gcatgggaaa c 41

<210> 1758
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1758
 ctcttcccca tgctgctcat ytcctgggc cccatccact c 41

 <210> 1759
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1759
 caggggtgga cctgagtttc rtctcctgtc tctctggctg a 41

 <210> 1760
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1760
 cctggcaata cttacatctc rgtgatttgc tttctgtgca t 41

 <210> 1761
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1761
 caacaggact ctggaccaag sccctggcgt tgggtaacaa t 41

 <210> 1762
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1762
 agggaagggg atgtgtgccc rtggcccgtg ggtcaggggg c 41

 <210> 1763
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1763
 atggctgcag gggccatggg yacggggctt gctcaggaga g 41

 <210> 1764
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1764
 tctgtggaca gacaaggatt sggtcggggg caccagggt g 41

<210> 1765
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1765
 tatgacaggt ccatcaggcc kcaccttcct gtgtgtctta t 41

 <210> 1766
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1766
 ctcagcatct gccccacag kgcttttgca cacgttggtt c 41

 <210> 1767
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1767
 aaagaaccct ccgagtcctt sgttttagtcc cagaagggag g 41

 <210> 1768
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1768
 gccttcaact gagggcgcac rcggccggcc gagttccggg c 41

 <210> 1769
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1769
 ggacctgcat aaggtgggcc rtggagagtg ggccccggca g 41

 <210> 1770
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1770
 gggccgtgga gagtgggccc sggcaggggc tggagcagcg t 41

 <210> 1771
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1771
 ttcactcctg aacactcaca agccaccctg tgatgcaggc t 41

<210> 1772
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 1772
 ttcactcctg aacactcaca gccaccctgt gatgcaggct 40

 <210> 1773
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1773
 gactacgctc tcaagaacct kcaggcctgg atgaaggatg a 41

 <210> 1774
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1774
 ctgcagcatc ctaacctcac ygtcgcgact caaggctgcc g 41

 <210> 1775
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1775
 aatcaccccc atggcacccc raccgtcact gagagggtgc t 41

 <210> 1776
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1776
 atgctggagc ggaccagcag mggcagcttt ggaggcaatg a 41

 <210> 1777
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1777
 aggtgtcctc actcacccca ycctcccca ttccagccct t 41

 <210> 1778
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1778
 actgtgtggg gtatggcggg rtggtgggga gaatgtggtg t 41

<210> 1779
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1779
 cgcggttttc ccggccagcc sccgtttcct gtgttctgca g 41

 <210> 1780
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1780
 tgcagcgttg acttgagcac ragacagtga cagtggagag t 41

 <210> 1781
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc feature
 <222> (21)..(21)
 <223> a is present or absent.

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 <210> 1782
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1782
 tcaggaacag gaagtaaaga rgtttacatt tctaaatttc t 41

 <210> 1783
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1783
 atcaaaaaca cttgtctgat katcgtgctc tgaacctgcc t 41

 <210> 1784
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1784
 atgacgctga gtttggtgct rttcttttgt ttttcttgcc t 41

 <210> 1785

<211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1785
 gggagaagtg agggacctac ycttggttc taatctttca t 41

 <210> 1786
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1786
 ttgtcagaga catctttgat ratccttacg tactatatca g 41

 <210> 1787
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc feature
 <222> (21)..(21)
 <223> t is present or absent.

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 <210> 1788
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1788
 catattcaat tcttttatgt ycttttagacc aaagaaaggc a 41

 <210> 1789
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1789
 taaaccttta agtcatcat yggaccatct attgaatttc t 41

 <210> 1790
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1790
 atttaaagtg aaagctatgt ytagttttaa aaattgagca g 41

 <210> 1791
 <211> 41
 <212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

<400> 1791 41
 ctatttagca aacttttttt tgacagtgta taaagttttc a

<210> 1792
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> g is present or absent.

<400> 1792 41
 gttttcaaca attgatattg gaaggttggt agggcctagg a

<210> 1793
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1793 41
 ccctcaagga gcttatagtt waggttgtagt acaatcatgt c

<210> 1794
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1794 41
 tagaaaaaat tgtaatgtta raaagcatta ctgtaggac a

<210> 1795
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1795 41
 agttcaagat gattttgtag sttcagggcc tagttgactt a

<210> 1796
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1796 41
 atgattttgt aggttcaggg yctagttgac ttagcatgca a

<210> 1797
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1797
 agaaaagttg cacaaatagt mcaaagaatt cccatgtacc t 41

 <210> 1798
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1798
 attaaaaatct gctttaaata ytttttttggg ggagaggaca c 41

 <210> 1799
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1799
 ccgatcttca aaaaattagc ygggggtggt ggtgcacact g 41

 <210> 1800
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 1800
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 <210> 1801
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 1801
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 <210> 1802
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

<400> 1802 41
 aaaacaaaaa acaaaaaaaaaa accttggtcc tttatagggt c

<210> 1803
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1803 41
 ggggtgtggg aaactggccc ygccgcgca cttgtggact g

<210> 1804
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1804 41
 tgccgcgaag aaattggcac wgctgagttc tacatgcagt t

<210> 1805
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1805 41
 ttctgtacat caacttgtga wggattgagg ccagttctgg t

<210> 1806
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1806 41
 taccgctttg cccctgacca rgggtaaatt cttcaataac t

<210> 1807
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1807 41
 aggcaattct gcacacaccc rcgtctcatg cattttccct g

<210> 1808
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1808 41
 atgttgaaga gattgctgat rttagacgtt aggatttatt t

<210> 1809
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1809
 tagaaaataa gaggtttcag kttctctctg ctaaattccgg t 41

 <210> 1810
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1810
 atcctgcttt atacctgaac rtcttgccagg cagagccaaa a 41

 <210> 1811
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1811
 aggccagagcc aaaagccaca rccaggagag tctgtaccga a 41

 <210> 1812
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1812
 attagttgtg gcatatactt kttttaaaaa agttaataa t 41

 <210> 1813
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1813
 aatcctgctt tctggtatac ygtacctgta gcttttgta t 41

 <210> 1814
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1814
 aggctaataa atggaagag raaggggcta tctgattag c 41

 <210> 1815
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature

<222> (21)..(21)
 <223> a is present or absent.

<400> 1815 41
 tgcttttctg atgttaatcc acagggcatt gctgaataac a

<210> 1816
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1816 41
 tttagaacat gacctgcctg yctctccac atgtgagatg a

<210> 1817
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1817 41
 ctcccatg tgagatgact ractcagctt tttatttctc c

<210> 1818
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1818 41
 tgttttcatt tttaaaaaa kgtttgactt tggaattcat g

<210> 1819
 <211> 42
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(22)
 <223> ca is present or absent.

<400> 1819 42
 ttggcttgtc tactaatata catctgcttc aaaatgaaca ta

<210> 1820
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

<400> 1820 41
 gtatttgcata actttttttt tctcatttta aaattcttag c

<210> 1821
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1821
 gtgtgttggg ggtggtggtt rgtagctata gtaaataagg t 41

 <210> 1822
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1822
 aaaagcacgt gggaaacaca rttaatcatg tcttaccgta t 41

 <210> 1823
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1823
 gctaaaacac tccaaagcct kccttaaaaa tgcgcactgg g 41

 <210> 1824
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 1824
 cctccttgca gatttttttt tctctttcag tacgtgtcct a 41

 <210> 1825
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1825
 tagcagggac cccagcgccc sagagaccat gcagaggtcg c 41

 <210> 1826
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1826
 ctatgtgaga cgtaagaag rtagaggtgg ccaagaagga a 41

 <210> 1827

<211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1827
 agttctcttt cttagcatgg mctacagagg tgcaactacc t 41

 <210> 1828
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1828
 gaaacttaaa tcttgagtca yacaattgtg tctacatact g 41

 <210> 1829
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 1829
 attacacagt attttttttt taattttggg gaaagtcgat t 41

 <210> 1830
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> c is present or absent.

 <400> 1830
 gccaggcaga ttcctgactc ctataacca gagcttatca g 41

 <210> 1831
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1831
 taacccagag cttatcagag satttatgtc cccaaagaga a 41

 <210> 1832
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1832

cagaataaca atgatggctc rgaaaaatat ggggtatttct g 41

<210> 1833
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1833
 acgttttgac agttgcacaa stttctttct ttaagcttta a 41

<210> 1834
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1834
 aatatttttg aaaatcacta sggatcctg catagtgatt t 41

<210> 1835
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1835
 gaaaaatttc agttcataca mccccatgaa aaatacatTT a 41

<210> 1836
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1836
 acttatctta acaaagatga stacacttag gcccagaatg t 41

<210> 1837
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1837
 caaagatgag tacacttagg yccagaatgt tctctaattg t 41

<210> 1838
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

<400> 1838
 tttttccaaa taaaaaaaaa atcaggtgat atctgtaaT g 41

<210> 1839
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1839
 tattaaagaa catgatgctt raaacagatt agggaaaact a 41

 <210> 1840
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

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 <210> 1841
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1841
 ttatgttcag caagaagagt rtaatatatg attgttaatg a 41

 <210> 1842
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1842
 tgtccagaca agagaccaaa ytgccgaggc atcatttagg t 41

 <210> 1843
 <211> 41
 <212> DNA
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 <400> 1843
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 <210> 1845
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 <210> 1846
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 <210> 1847
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 <400> 1848
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 <210> 1850
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 gaatgtttgg ttgtaacctg yataatctgg catgaaattg t 41

 <210> 1851
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 <213> Homo sapiens

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<210> 1852
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<400> 1852
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<210> 1853
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 <223> g is present or absent.

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> t is present or absent.

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<210> 1855
 <211> 40
 <212> DNA
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<400> 1855
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<210> 1856
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<400> 1856
gaacacttta tagttttttt kggacaaaag atctagctaa a 41

<210> 1857
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<400> 1859
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<210> 1860
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<400> 1860
gtgtggatag taaatgccag rgtaaatacac atagcatcta a 41

<210> 1861
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<400> 1861
atggaagaga agtttttagta raggggagga aggaggaggt g 41

<210> 1862

<211> 41
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<400> 1863
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<210> 1864
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<400> 1864
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<210> 1865
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<220>
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<222> (21)..(22)
<223> at is present or absent.

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<400> 1866
taaatatgta tatatacaca wgtatacatg tataagtatg c 41

<210> 1867
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<400> 1867

ggaagtataa atttgtaaata mactgagacc caaacttaca a 41

<210> 1868
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<400> 1868
 tgctattgac taatagtaat watttttaggg cagctttatg a 41

<210> 1869
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<400> 1869
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<210> 1870
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<400> 1870
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<210> 1871
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<210> 1872
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<400> 1872
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<210> 1873
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 <213> Homo sapiens

<400> 1873
 tgacatttgt gatatgatta ytctaattta gtctttttca g 41

<210> 1874
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<220>
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<223> t is present or absent.

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<210> 1875
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<400> 1875
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<210> 1876
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<400> 1876
atgtggaaca atcatgacta yatgcctttt acttttctcta t 41

<210> 1877
<211> 42
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<220>
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<220>
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<223> a is present or absent.

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<220>
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<222> (33)..(34)
<223> t is present or absent.

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<400> 1880
actcttcccc cttgtcaaca yatgatgaag cttttaaata c 41

<210> 1881
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<400> 1881
gggtgaagct ctttccccac yggaactcaa gcaagtgcaa g 41

<210> 1882
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<400> 1883
aaaggggctg aaggggtctt ycttttgtgt tcccctgact g 41

<210> 1884
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<210> 1885
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<400> 1885
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<400> 1886
 aggaggactg tgaatcccag mctgcatgtt tgggtcggat t 41

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 catctcacta aggaagaatc yagtaaccag caaggatgag a 41

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<400> 1888
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<400> 1890
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 <400> 1892
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 <210> 1894
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 <400> 1894
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 <210> 1895
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<210> 1922
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<400> 1922
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<210> 1923
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 <210> 1926
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 <210> 1930
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 <210> 1931
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 <210> 1933
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 <210> 1934
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 <210> 1935
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 <210> 1941
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 <210> 1942
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 <210> 1943
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 <400> 1943
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 <210> 1944
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 <210> 1949
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 <220>
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 <400> 1950
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 <210> 1951
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 <400> 1951
 gttctgctag aacctgaact yataaaggtc ttctgtcct t 41

 <210> 1952
 <211> 41

<212> DNA
 <213> Homo sapiens

 <400> 1952 41
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 <210> 1953
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 <210> 1954
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 <400> 1954 41
 cagctccctg ccctcccctc rctctctctc cctcagccag c

 <210> 1955
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1955 41
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 <210> 1956
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 <400> 1956 41
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 <210> 1957
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 <220>
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 <222> (21)..(24)
 <223> aaaa is present or absent.

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 <210> 1958
 <211> 41
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<400> 1958
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<210> 1959
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<210> 1960
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 cagatcccag cttcctgtaa rcagcctcag atcaggccaa a 41

<210> 1961
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<400> 1961
 ggcgctcaca ctcctataac rcgcacatgc cctgatgcac a 41

<210> 1962
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<400> 1962
 atgccctgat gcacacacat yttcaacacg cacttactct a 41

<210> 1963
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<400> 1963
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<210> 1964
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<210> 1965
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<400> 1965
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<210> 1966
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<400> 1966
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<210> 1968
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<210> 1969
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<210> 1970
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<220>
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 <222> (21)..(21)
 <223> c is present or absent.

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<210> 1971
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<400> 1971
 tggccccac cgcgggtggt rttccacca tcctgaccgc c 41

<210> 1972
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 <400> 1972
 tgttgtttct ccttaaagag mtatttgttt ttccccccaa a 41

 <210> 1973
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 <400> 1973
 gctggccttc tggcttgagcag wagtgtatt ttaagaatca g 41

 <210> 1974
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 <400> 1974
 tgcagaagtt gtattttaag ratcagagct cttgtgagga g 41

 <210> 1975
 <211> 41
 <212> DNA
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 <400> 1975
 ttctgtggaa atcagaggct stctaaaata ttcctaattt t 41

 <210> 1976
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1976
 tggagcgact caacattttc ragttattac tccttcaact c 41

 <210> 1977
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1977
 aggatatcat gaaacactga mtcttagtaa aaactatctt t 41

 <210> 1978
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1978
 tactgtggaa tttttcttgc macagagata tgtatttttc a 41

<210> 1979
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 <213> Homo sapiens

 <400> 1979
 cagtggtaga tgtgttttct rttgccatca tctacaaata t 41

 <210> 1980
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 <213> Homo sapiens

 <220>
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 <222> (28)..(29)
 <223> t is present or absent.

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 <210> 1981
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
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 <222> (21)..(21)
 <223> a is present or absent.

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 <210> 1982
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 <400> 1982
 ctttttattt gctgcttacc rttttactaa gggttgatat a 41

 <210> 1983
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 <213> Homo sapiens

 <400> 1983
 cttttaataa atgcaaactg yacacctggt ctataaaaag a 41

 <210> 1984
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 <212> DNA
 <213> Homo sapiens

<400> 1984
 cctatagaat ttttcttttc ktttttctca aaaaaattaa a 41

<210> 1985
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 <212> DNA
 <213> Homo sapiens

<400> 1985
 tttctttttt ctcaaaaaaa ytaaattgtt gttatttatt t 41

<210> 1986
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 <212> DNA
 <213> Homo sapiens

<400> 1986
 ttctgtagat gaagcttaag wgctagatct tatttgaaaa a 41

<210> 1987
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 <212> DNA
 <213> Homo sapiens

<400> 1987
 tttttaactt attgtttgcc ktttcatttt ttaatagaaa a 41

<210> 1988
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1988
 cgaatttgct gcttttagag waatctttgc aaataataaa a 41

<210> 1989
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 <213> Homo sapiens

<400> 1989
 atttttcttc ttgtaagtat sagtgataga gctgactgca g 41

<210> 1990
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 <212> DNA
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<400> 1990
 atttgtaaga cttttaaaat ragataattg tgctggtgtc t 41

<210> 1991
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<400> 1991
 tgtgctggtg tctatatctt rctgagaaaa ctagaattta t 41

<210> 1992
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1992
 ataagtgtc tcccagtgtt rattggactt agagcatttt c 41

<210> 1993
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 <213> Homo sapiens

<220>
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 <222> (21)..(24)
 <223> taac is present or absent.

<400> 1993
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<210> 1994
 <211> 46
 <212> DNA
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<400> 1994
 aacatactct cctcctctct ctctttaagt caaaatatat tagtat 46

<210> 1995
 <211> 42
 <212> DNA
 <213> Homo sapiens

<400> 1995
 aacatactct cctcctctct ctaagtcaaa atatattagt at 42

<210> 1996
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 1996
 aacatactct cctcctctct aagtcaaaat atattagtat 40

<210> 1997
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 1997
 ttctgtgaaa gtgtcccaaa wtgtgccttt aaattgtttt t 41

<210> 1998
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 1998
 agtgtcacat gtatTTTTTC yggTattcct atgtttatca a 41

 <210> 1999
 <211> 41
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 <213> Homo sapiens

 <400> 1999
 ctcatTTCAA acttgGctat ytgGactctc cccaggcatt g 41

 <210> 2000
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 <212> DNA
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 <400> 2000
 atcccctagt gatgtacact ragcttgcct ccattcttcc t 41

 <210> 2001
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 <400> 2001
 ctgatttata tattagctga ytttccaagt tcagacatct a 41

 <210> 2002
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 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

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 <210> 2003
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 <400> 2003
 atcccactgg atttaattac mttgtgtagc ttgtacaacc a 41

 <210> 2004

<211> 41
 <212> DNA
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 <400> 2004
 attttggaag agaaattata kaaccttcca caactgaatt t 41

 <210> 2005
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

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 <210> 2006
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2006
 aagtaactca aggaaagatg rtttaacttg tgaaatcgta a 41

 <210> 2007
 <211> 41
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 <213> Homo sapiens

 <400> 2007
 ctcatagttc agaagagttc mgagcccaat tcagaagagt t 41

 <210> 2008
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> g is present or absent.

 <400> 2008
 tgaacctata aaattctaata gccatctttg gatgaggtgc a 41

 <210> 2009
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2009

ccagggacaa aagaagatga ygtaaactta aggattggga c 41

<210> 2010
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2010
 agcaagccag gaagaaagtc sattaagttg tatttagaaa t 41

<210> 2011
 <211> 48
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(28)
 <223> aattagaa is present or absent.

<400> 2011
 atagccatga aggataagaa aattagaatg ccatttgta tgtttcag 48

<210> 2012
 <211> 47
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (21)..(23)
 <223> n is t.

<220>
 <221> misc_feature
 <222> (24)..(24)
 <223> n is a or t.

<220>
 <221> misc_feature
 <222> (25)..(26)
 <223> n is a.

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n is a or absent.

<400> 2012
 aactctttct cttcatctgc nnnnnngca agccttgaag gagagtg 47

<210> 2013
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2013
 gcatgcaaaa taatgaagaa racaatcttg tctgacattg a 41

<210> 2014
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2014
 aaatatttca gaatttgggg rtgtagagca tttgccgtca t 41

<210> 2015
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (21)..(21)
 <223> t is present or absent.

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<210> 2016
 <211> 41
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 <213> Homo sapiens

<400> 2016
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<210> 2017
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 <212> DNA
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<400> 2017
 aactggctga aaggaaaaaa wtcattattgc tgtaaattatt t 41

<210> 2018
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2018
 tgcttttgct ttccacttca rtatccagaa aactcttca t 41

<210> 2019
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2019
 aacatggaac tatagtaaatt rtagtttttt tgggggttcag a 41

<210> 2020
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> t is present or absent.

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<210> 2021
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2021
aatggagctc atgcatgtgt kttcaaatat atacatgcaa a 41

<210> 2022
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2022
tatttcctta gccagcggta ycacagtgtg tttagtgaat t 41

<210> 2023
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2023
tcacattgcc ttgacatcac mcctactgct cctccaccct a 41

<210> 2024
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> g is present or absent.

<400> 2024
agtcttgcaa gggtgacacc gttatgccac aagcagttgg g 41

<210> 2025
<211> 41
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

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 tgagtccttc tgaagtcaaa tatgcggggc actttttgaa a 41

 <210> 2026
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2026
 tctgaagtca aatatgcggg kcactttttg aaatccttgt t 41

 <210> 2027
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2027
 aagggaatcc ctgagctgag matgaccagc ccagtgggtt c 41

 <210> 2028
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2028
 cctccctgaa gtcctcagca mtcttagctg gttcctcgcc c 41

 <210> 2029
 <211> 41
 <212> DNA
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 <400> 2029
 tgcttccaag gaagttcatc kcagtattat ttgtaattag c 41

 <210> 2030
 <211> 43
 <212> DNA
 <213> Homo sapiens

 <220>
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 <222> (21)..(23)
 <223> aaa is present or absent.

 <400> 2030
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 <210> 2031

<211> 41
<212> DNA
<213> Homo sapiens

<220>
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<222> (21)..(21)
<223> a is present or absent.

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<400> 2032
gagaatatgg gacaccctt kttcatcctc tcatccagca t 41

<210> 2033
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2033
tccttcttgc atttatTTTT rgctggatgt ttttatgcct c 41

<210> 2034
<211> 41
<212> DNA
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<400> 2034
aaccagctca atgggtagg raggacattg atcgatcc c 41

<210> 2035
<211> 41
<212> DNA
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<400> 2035
gagtcaaggc agtccccga ygggctgac ctttgctctg g 41

<210> 2036
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2036
atggaaggtg tgtccattca mcctggccaa gctgggaaga a 41

<210> 2037
<211> 41
<212> DNA

<213> Homo sapiens
 <400> 2037
 cagtatttta gatggtaaag yattatgatg taatatattg t 41

 <210> 2038
 <211> 41
 <212> DNA
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 <400> 2038
 ttggcatgtc agggctgcaa ractcatgta gaaatcactc c 41

 <210> 2039
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2039
 cgctgagtgc atgaatagtc yaggcttgag ggtgatggga g 41

 <210> 2040
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2040
 taaggcatcc aagccccttc rtaattggac actacctacc c 41

 <210> 2041
 <211> 41
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 <400> 2041
 tctgtcatga cacttagcag kcagcccagc aggtgaaggt t 41

 <210> 2042
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 <212> DNA
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 <400> 2042
 tgtggctctg aaggctctgc ctgacatctc tgctccccac c 41

 <210> 2043
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 2043
 tgtggctctg aaggctctgc tgacatctct gctccccacc 40

 <210> 2044
 <211> 41

<212> DNA
 <213> Homo sapiens

 <400> 2044 41
 gaggtgggca gagggtcagc ycactactgg attcctcagt c

 <210> 2045
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2045 41
 ggagtagatc tagcctggaa kagcgagtga gtcactgacc c

 <210> 2046
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2046 41
 gtagatctag cctggaatag ygagtgagtc actgacccca c

 <210> 2047
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2047 41
 ctctgagca tgaactctcc wcccctccac tctgctgtca g

 <210> 2048
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2048 41
 acttcttcat ttcagctgtc stcttgccca gggacagttt c

 <210> 2049
 <211> 41
 <212> DNA
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 <400> 2049 41
 cctccaaaat caacaatcca rttatcgctt gtctgctagt t

 <210> 2050
 <211> 41
 <212> DNA
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 <400> 2050 41
 aggaactatc caaagagaaa yacattcata tacttgcag g

 <210> 2051

<211> 41
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 <400> 2051
 gtcgtgtaaa ctgaaaatct saggagttga tggcttcagg c 41

 <210> 2052
 <211> 41
 <212> DNA
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 <400> 2052
 atatagatat acgaattcac rgagtgatgc gggaagaacc t 41

 <210> 2053
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 <212> DNA
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 <400> 2053
 cgtgtttgtt tctgaggccc mgagaggggt agtgactcac c 41

 <210> 2054
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 <212> DNA
 <213> Homo sapiens

 <400> 2054
 cctgatggca acacatgagt ygggctctct ctaatctgtg a 41

 <210> 2055
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 <213> Homo sapiens

 <400> 2055
 aaaaattatt catcaaaggt raaacctaaa attaagacat g 41

 <210> 2056
 <211> 41
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 <213> Homo sapiens

 <400> 2056
 ccatggcgca tggccatgcc rgtctatggt actggtctca c 41

 <210> 2057
 <211> 41
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 <400> 2057
 cgcattggcca tgccgggtcta ygggtactggt ctcaccctca g 41

<210> 2058
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2058
 gtgggctgga gaagctgcat ygctcaccg gggctggtg t 41

 <210> 2059
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2059
 gagaagctgc atcgctcacc mggggctggt ggctactttt t 41

 <210> 2060
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2060
 ctagcaggtg ccctgacaca sctttgcaca ggaaggggca g 41

 <210> 2061
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2061
 gccctatgct ctgcgtctga rctatatata gagttcccat c 41

 <210> 2062
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2062
 ttctcatttg ggatgctaag rttaaaaatt agcataacac t 41

 <210> 2063
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2063
 catttgggat gctaagatta maaattagca taacacttcc a 41

 <210> 2064
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2064
 cattcacaaa agctctttct yctatgggtg gctctgagtt t 41

<210> 2065
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2065
 caaatatttg gctctaattc ygcttccacc tcagacagct a 41

 <210> 2066
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2066
 gcgcctctgg gcatctcact rtgcatgctt aggcgccttg c 41

 <210> 2067
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2067
 gtgcatgctt aggcgccttg sggctctgtt gtttttcaga a 41

 <210> 2068
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2068
 aacggtgatg aaagaggcga ygtgagaagg aaggtggctt t 41

 <210> 2069
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 <212> DNA
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 <400> 2069
 ttgcatggca cttactgacc rttgcacagg cctgcaacac c 41

 <210> 2070
 <211> 41
 <212> DNA
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 <400> 2070
 atttctggat tctgttagta ygtagaaagc tctaaagcat g 41

 <210> 2071
 <211> 41
 <212> DNA
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 <400> 2071
 aaatctgctg ctgggagaga sagcaaagca tgcagatcaa c 41

<210> 2072
 <211> 41
 <212> DNA
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 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

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 <210> 2073
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2073
 tgtcactgag gtagttcgca racattttac taagtcttca g 41

 <210> 2074
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

 <400> 2074
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 <210> 2075
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2075
 tgccatcata agcagaaact mtctctctct tcttggaagc t 41

 <210> 2076
 <211> 41
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 <213> Homo sapiens

 <400> 2076
 gtctagagtc tttcaaagag wacacattct gagatttgag g 41

 <210> 2077
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 <212> DNA
 <213> Homo sapiens

<400> 2077
 agcaccaccc cattgcaggg mtggaatgac agtaatgggc c 41

<210> 2078
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2078
 tgcccttccc aggaagatgt rtttctctgt cctcagccac a 41

<210> 2079
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2079
 ctgtcctcag ccacatgaaa rtcttttgcc taccgtgcct g 41

<210> 2080
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2080
 agctcacgat caagtcacag yttaactgga cacattatatt t 41

<210> 2081
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2081
 gcttaacaac cagcataaaa ragagcagca tgggacacgc t 41

<210> 2082
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2082
 caggactgta gctgctggcc yaaaatgagc ccattcctgt g 41

<210> 2083
 <211> 41
 <212> DNA
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<400> 2083
 ccctctcaat ctggcctttc setggcatgg gtgggcgact c 41

<210> 2084
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2084
 gctcccaggg agatggagcc rctcgggctg agggccttgg c 41

<210> 2085
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2085
 ttctgtctgg cacgcctccc ratggctccc cacctgctac c 41

<210> 2086
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2086
 ctccctgggg tatgcctgta sgcagttaag cgtcaaggac a 41

<210> 2087
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2087
 atgccgctct ggggagggga mgctgagcat gattttggaa g 41

<210> 2088
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2088
 ctgagcatga ttttggaagc yggcagaaga ggctattgtg a 41

<210> 2089
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 <213> Homo sapiens

<400> 2089
 tgcagcaacc gccccgccc yccgcaaaa acaaacacac t 41

<210> 2090
 <211> 41
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<400> 2090
 tttacccttg gaacaggcag rccaagctgg ctggtcccct c 41

<210> 2091
 <211> 41
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<400> 2091
 aacaggcagg ccaagctggc yggccccctc cctgatacac a 41

<210> 2092
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<400> 2092
 gtgtgtggct ggtttcttag saagcaccat ggttccaagt t 41

<210> 2093
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<400> 2093
 gggagatgaa cgtaagtgga rggcaggcct acaaggttgc a 41

<210> 2094
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<400> 2228
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<210> 2229
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 <213> Homo sapiens

<400> 2229
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<210> 2230
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 <213> Homo sapiens

<400> 2230
 ttgaaggata ctcagtaatt rctttttttc ttgcagtatt t 41

<210> 2231
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 <212> DNA
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<400> 2231
 gtgttttggtt cacacagctc yggagaaaaa caagtcacgg c 41

<210> 2232
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 <212> DNA
 <213> Homo sapiens

<400> 2232
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<210> 2233
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2233
 cccaagtctc tggatggggc rtctgatcag gatgcatgca g 41

<210> 2234
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<400> 2234
 atgcatgcag agcctggctg rgatgagga gggctgctac c 41

<210> 2235
 <211> 41
 <212> DNA
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<400> 2235
 accacttatc tcaacagatc sgggacctgt ggcctattta c 41

<210> 2236
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<400> 2236
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<210> 2237
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<400> 2237
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<210> 2238
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<400> 2238
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<210> 2239
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<400> 2239
 acactctctg gtggaccatc mctcatccaa gagagggtaa c 41

<210> 2240
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<400> 2240
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<210> 2241
 <211> 41
 <212> DNA
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<400> 2241
 agagagcccc acccacacca yggtcctac caagtcccca c 41

<210> 2242
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2242
 gcaggttaatt ccaaactttt mtcccttatt ggatgagatc a 41

<210> 2243
 <211> 88
 <212> DNA
 <213> Homo sapiens

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 <221> misc_feature
 <222> (63)..(65)
 <223> tca is present or absent.

<220>
 <221> misc_feature
 <222> (66)..(68)
 <223> tca is present or absent.

<400> 2243
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 catcatcaat ttttcagtct gggttcctg 88

<210> 2244
<211> 50
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (29)..(30)
<223> a is present or absent.

<400> 2244
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<210> 2245
<211> 49
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(29)
<223> cacagtcatt is present or absent.

<400> 2245
ttgttggttg tgcaatggat cacagtcatt tattcactca ttcattcac 49

<210> 2246
<211> 42
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(22)
<223> tt is present or absent.

<400> 2246
cctgtccatc agactcttct ttacctctcc ccgaggagcc ca 42

<210> 2247
<211> 52
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)..(32)
<223> a is present or absent.

<400> 2247
cctgggtgac agagcgagat aaaaaaaaaa aatagcatga gatattatta ct 52

<210> 2248
<211> 41

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> c is present or absent.

<400> 2248
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<210> 2249
 <211> 58
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (37)..(38)
 <223> a is present or absent.

<400> 2249
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<210> 2250
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2250
 ttcatgacag atcagatggt gcttttatgg atttaciaag a 41

<210> 2251
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 2251
 ttcatgacag atcagatggt ctttttatgga ttacaciaaga 40

<210> 2252
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> c is present or absent.

<400> 2252
 tttccttctt caaaccccc cagactagga gaaggtctgt c 41

<210> 2253

<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> t is present or absent.

<400> 2253
gggacggaca gaaaaagacc tagtttctgt tgagccaaag a 41

<210> 2254
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 2254
tattttttca attaaataaa agagtttttt gtttctaaaa g 41

<210> 2255
<211> 42
<212> DNA
<213> Homo sapiens

<400> 2255
gggccgagta tgcacactga tgtgtgggaa agttagagaa ga 42

<210> 2256
<211> 40
<212> DNA
<213> Homo sapiens

<400> 2256
gggccgagta tgcacactga tgtgggaaag ttagagaaga 40

<210> 2257
<211> 53
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)..(33)
<223> t is present or absent.

<400> 2257
atcttcccca cctttcacta tttttttttt tttggtcttc tatggggtaa agg 53

<210> 2258
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)..(44)
<223> gt is present or absent.

<220>
<221> misc_feature
<222> (45)..(46)
<223> gt is present or absent.

<400> 2258
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ttcctg 66

<210> 2259
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 2259
ataggggcag aaaagacaca accaaaagtt ctctctcact t 41

<210> 2260
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> g is present or absent.

<400> 2260
catgatcaga gtaagggggg gttggaggat ggggagggga g 41

<210> 2261
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> g is present or absent.

<400> 2261
ggagaggaaa tgatgtagt gcctcctgta aataggcca g 41

<210> 2262
<211> 51
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(31)
<223> t is present or absent.

<400> 2262
tgctcttttg tgggtaatgg tttttttttt tcctcttcca ggagaagaaa a 51

<210> 2263
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2263
cggggtggag gggtgggagg gctcatttgc cattatagat g 41

<210> 2264
<211> 40
<212> DNA
<213> Homo sapiens

<400> 2264
cggggtggag gggtgggagg ctcatttgtc attatagatg 40

<210> 2265
<211> 42
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(22)
<223> tt is present or absent.

<400> 2265
tgctgccctc atcttctctc ttaaactagt tctgtatttc tc 42

<210> 2266
<211> 49
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (28)..(29)
<223> a is present or absent.

<400> 2266
tataacctga ctttttttttc aaaaaaaaaag gattgctttt ttaaacata 49

<210> 2267
<211> 51
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(31)
<223> t is present or absent.

<400> 2267
gctgaattag ttcccttggg tttttttttt tagttaactc ctgatttttg c 51

<210> 2268
<211> 50
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(30)
<223> a is present or absent.

<400> 2268
gataatcaat gctgtaaggg aaaaaaaaaa tggcattaga gatccagacc 50

<210> 2269
<211> 42
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(22)
<223> gt is present or absent.

<400> 2269
taaaaccgtc ttgtttgttt gtttacatgg ttttagggc cc 42

<210> 2270
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 2270
taagcagcta tcacttaaca atacaaaacc agagattatc a 41

<210> 2271
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2271
 ccttgaccaa agcctggggg tcagccattc cccaaccct c 41

 <210> 2272
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 2272
 ccttgaccaa agcctggggg cagccattcc ccaaccctc 40

 <210> 2273
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

 <400> 2273
 ataaaaagag ggggaaaaaa agaaggcagt cgctgcaggg c 41

 <210> 2274
 <211> 42
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(22)
 <223> ct is present or absent.

 <400> 2274
 gtggaccct gagactgact ctttcagat cttgttaggg tt 42

 <210> 2275
 <211> 39
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (19)..(19)
 <223> g is present or absent.

 <400> 2275
 actctggaaa ggcgggggga taagaacaca gcccagca 39

<210> 2276
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 2276
gggccccacc tgctgaagag aggggggggtg gggtttgccc c

41

<210> 2277
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 2277
ttttctccaa taatacaagt agaggatcgg gttaaaatag g

41

<210> 2278
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 2278
tgtagcctat tcctataaaa atgcaccatt gcttcccatt a

41

<210> 2279
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> c is present or absent.

<400> 2279
tttaattggc ccagccatgc ctttggtggc ttttgtcatt g

41

<210> 2280

<211> 44
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(24)
<223> aaag is present or absent.

<400> 2280
catcctgctg aaggagaaag aaagcaccaa tggcccaagc ccta 44

<210> 2281
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2281
agaatgttg cccctcccc ytcctgcatc ctctgcagaa g 41

<210> 2282
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2282
aatgttgcc ccctccccct yctgcatcct ctgcagaagc c 41

<210> 2283
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2283
ggccagtgag tgacgggcag rtcgccccaa tagcagcgtg c 41

<210> 2284
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2284
agagctgggg tcgtgcctcc rgctgggcaa ctgcctgtct c 41

<210> 2285
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2285
ctctgtcccg tcccctgccc rgtctcacca tggccttctg g 41

<210> 2286
<211> 41
<212> DNA

<213> Homo sapiens
 <400> 2286
 ccccgggcca aggacctccc rttccagga tccaggctgt c 41

 <210> 2287
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2287
 cagcttggtg gaggccgctg rggacctggc ccaggaggta c 41

 <210> 2288
 <211> 41
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 <213> Homo sapiens

 <400> 2288
 gccggagggt cacggaaact rtttgaagaa gtaggagtta g 41

 <210> 2289
 <211> 41
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 <400> 2289
 tgcggaggat cagaggcaca ygcaggagca aggcagaggg g 41

 <210> 2290
 <211> 41
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 <213> Homo sapiens

 <400> 2290
 accggacctt cgaggagctc rccctgctga gggatgtccg g 41

 <210> 2291
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2291
 tttttttttt tttttttttt wtaagagatg gagtctcact c 41

 <210> 2292
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2292
 gttgcccagg ctggactgca rtggcgagat cttggctcac t 41

 <210> 2293
 <211> 41

<212> DNA
 <213> Homo sapiens

 <400> 2293
 cccaggctgg actgcagtgg ygagatcttg gctcactgca a 41

 <210> 2294
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2294
 gagatcttgg ctactgcaa yctccgctc ctggattcaa g 41

 <210> 2295
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2295
 cgcacacgct gatgtggggc rcctggtggg cacgctgggc c 41

 <210> 2296
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2296
 gagtgcgga ggtgagggcc ygtccacctg cggggtctgt t 41

 <210> 2297
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2297
 cctgggcccc ggccacgtgc rcatcaaaat ccgcatggac a 41

 <210> 2298
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2298
 caggctgcga actttgcacc kttacaccac tccacgtgac c 41

 <210> 2299
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2299
 cccttcctgc tcagcgccgc rctgctggtt ctggtgetca a 41

 <210> 2300

<211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2300
 ggtgcgctgg aggggtgacag rcaggggcgg cccacagtgg g 41

 <210> 2301
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2301
 ggggcggccc cacgtgggtg mgcgcccca ggccaatcca g 41

 <210> 2302
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2302
 cgttgccctc cacagctggg rgacatcctc ccctacagcc a 41

 <210> 2303
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2303
 cgagggcgcg cagtggcaca mcgtgggcac ccggcctacg g 41

 <210> 2304
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2304
 ggcggggctc cgggccgggt sgcacctgct ttgcgggagg c 41

 <210> 2305
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2305
 ctggacccaa aggggtgaggc mctacgaggc ttaatagctg g 41

 <210> 2306
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2306
 tcccgcagct tttataggcc ycggccagc aggtcccgga t 41

<210> 2307
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 <212> DNA
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 <400> 2307
 caccatct ctgcagtgt rtagaagag gcaccgccg g 41

 <210> 2308
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 <212> DNA
 <213> Homo sapiens

 <400> 2308
 cccggcctga gtcctggcgt mtccgttcgc agcctggaga a 41

 <210> 2309
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2309
 cgagacagta agagttggg rtagacagag gttccctgg a 41

 <210> 2310
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2310
 ctgctgggag accgtgtggc ytggtggca ggtggccgct t 41

 <210> 2311
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2311
 ggggtgggcg tgagccggg ytcctgaag caccctttg t 41

 <210> 2312
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2312
 gggatctccg acaccagcct sgaggagtg tgaggcctgg g 41

 <210> 2313
 <211> 41
 <212> DNA
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 <400> 2313
 ggagctctgg tggctcagat rtccctggg aaggcctggg g 41

<210> 2314
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 <400> 2314
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 <210> 2315
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2315
 cccagcctgc cagtgtagcc rgcccgggtgc ccggcgctg c 41

 <210> 2316
 <211> 41
 <212> DNA
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 <400> 2316
 ccccctggga gctctcccg mccccccggc cctcagctcc c 41

 <210> 2317
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2317
 ctgcctgcat ggccccacag rtacggaggc ttctcgctgg g 41

 <210> 2318
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2318
 caaggagcag ctgtctgagg stgcactgtg agtccctcca c 41

 <210> 2319
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 <400> 2319
 ccactgcttg ccactgccct rtctggcccc ttgtaggcag g 41

 <210> 2320
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 <400> 2320
 cagtactttg ggaggccgag rcaggaggac tgcttgtggc c 41

<210> 2321
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 ggtgagccgg atcttgaaac rggtcttctt tatcttcccc c 41

 <210> 2322
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 <400> 2322
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 <210> 2323
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 <400> 2323
 ctctacctcc cacacgcgga scaggccctg agacaccct g 41

 <210> 2324
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 <210> 2325
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 <400> 2325
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 <210> 2326
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 <213> Homo sapiens

 <400> 2326
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 <210> 2327
 <211> 41
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 <213> Homo sapiens

 <400> 2327
 tggccgttcc cagtttgcag ycgtttctact gcctcttcca t 41

<210> 2328
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 <210> 2329
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 <400> 2329
 actatggccc tgccccacac ycatcccagc tccacccaca c 41

 <210> 2330
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 <212> DNA
 <213> Homo sapiens

 <400> 2330
 tggccctgcc ccacacccat sccagctcca cccacacccat g 41

 <210> 2331
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2331
 ccctgccccca caccatccc rgctccaccc acaccatggc c 41

 <210> 2332
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2332
 actcatgctg gctccaccca yaccatggcc ccgccccata c 41

 <210> 2333
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2333
 tgcctgccc catgcccatt rtgccctgc tccacactca a 41

 <210> 2334
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2334
 gaagcgtct gctcgcgcct rgccatcatg gtgaatgggc g 41

<210> 2335
 <211> 41
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 <213> Homo sapiens

 <400> 2335 41
 ggcgccaggac caggaggcgt sagccggggg ctctgggtgg a

 <210> 2336
 <211> 41
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 <400> 2336 41
 ctgggtggat ttagaagaca yaatcagggtg tgcgttggag t

 <210> 2337
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 <400> 2337 41
 agttagggga gggcctgggt rgtgggcggg gccataggaa a

 <210> 2338
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 <400> 2338 41
 ggcggggcca taggaaagtg sggcgggggt atttattgtg t

 <210> 2339
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 <213> Homo sapiens

 <400> 2339 41
 tggcgggcca gttccctggg kcgagctgc gcgaggcaca t

 <210> 2340
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 <212> DNA
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 <400> 2340 41
 ctgcgcgagg cacatggagg ygcctgcgc ttccagctgc c

 <210> 2341
 <211> 41
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 <223> g is present or absent.

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<400> 2472
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<210> 2473
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<400> 2473
catcaattca ggtcaagaaa yagaagattg tagcacacaa a 41

<210> 2474
<211> 44
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<213> Homo sapiens

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<222> (21)..(24)
<223> tcac is present or absent.

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<210> 2475
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> t is present or absent.

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<210> 2476
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<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(31)
<223> t is present or absent.

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<220>
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 <222> (28)..(28)
 <223> a is present or absent.

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<210> 2479
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<400> 2479
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<210> 2480
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<210> 2481
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<400> 2481
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<210> 2482
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<400> 2482
 cttgcccttg ggaagtgagt rtgaatctaa actgagctct c 41

<210> 2483
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 <400> 2483
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 <210> 2484
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 <400> 2484
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 <210> 2485
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 <213> Homo sapiens

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 <210> 2486
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2486
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 <210> 2487
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 <400> 2487
 gggggacagc ttgaacaaga rtgtggaggc aggatggaca c 41

 <210> 2488
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 <212> DNA
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 <400> 2488
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 <210> 2489
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<210> 2490
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 <210> 2491
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 <400> 2491
 ttgtgtagga agctgataca ktaatttgac atatgagatg t 41

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 <210> 2493
 <211> 41
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 <400> 2493
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 <210> 2494
 <211> 41
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 <400> 2494
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 <210> 2495
 <211> 56
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 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (34)..(36)
 <223> t is present or absent.

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 <210> 2496

<211> 50
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(30)
<223> t is present or absent.

<400> 2496
tacatttgtc aaaatttata tttttttttt gcagataatc atttcatctc 50

<210> 2497
<211> 56
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (35)..(36)
<223> t is present or absent.

<400> 2497
taaattcaca tgattctgta tttttttttt ttttttagga tcctcctgac tggcag 56

<210> 2498
<211> 57
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (34)..(37)
<223> t is present or absent.

<400> 2498
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<210> 2499
<211> 41
<212> DNA
<213> Homo sapiens

<400> 2499
ttgctctgtt tcaaattctt tattcatggg ccagcagctc g 41

<210> 2500
<211> 40
<212> DNA
<213> Homo sapiens

<400> 2500
ttgctctgtt tcaaattctt attcatgggc cagcagctcg 40

<210> 2501
<211> 49
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (29)..(29)
<223> a is present or absent.

<400> 2501
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49

<210> 2502
<211> 49
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (29)..(29)
<223> t is present or absent.

<400> 2502
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49

<210> 2503
<211> 56
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(36)
<223> gcagtattac tgtagt is present or absent.

<400> 2503
tcctctgcat ttgggttct gcagtattac tgtagtattt gtcattttca aattaa

56

<210> 2504
<211> 54
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (34)..(34)
<223> t is present or absent.

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54

<210> 2505
<211> 50

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (30)..(30)
 <223> t is present or absent.

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 <211> 51
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> t is present or absent.

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<210> 2507
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2507
 taaatggaga aaataacacc racctgatag cattgttgtg a 41

<210> 2508
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2508
 aaactcccca agcatgctca mctagatcct taccctaggt c 41

<210> 2509
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2509
 gccctgcccc cactcccaga sttgcgggcc tccagcccct t 41

<210> 2510
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2510
 cctccccagc aggagctggg yacactgggg ccttgtgttg t 41

<210> 2511
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2511
 attgtgtgtt ggcatactgc ycacatggaa ggatgctcta g 41

 <210> 2512
 <211> 41
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 <400> 2512
 ttttccttag gaagaaaaac rccttgctgt tttatgcatt t 41

 <210> 2513
 <211> 41
 <212> DNA
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 <400> 2513
 aaaacattca tgggggatta stgctggcta cgtcagagtc a 41

 <210> 2514
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2514
 gcgctgccac agatcaggcc raggtggggg acagaaatgc c 41

 <210> 2515
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2515
 cccagaattc tgaatacagc rgcgatgacg ggactacgag g 41

 <210> 2516
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2516
 aacagatcca caggaccaga magcaaaggg gaggaacatg c 41

 <210> 2517
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2517
 atgcagggaa ggggcttggc rcaaaactgt caactgagat a 41

<210> 2518
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2518
 atgctccctg gtccactttc rctttgagtt tcaggtagct g 41

 <210> 2519
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2519
 ccatggctctg caggggtcct kcatgctcag gggattgggg t 41

 <210> 2520
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2520
 agaggacaga ggaaagagga mcacctggag aactgggcgc c 41

 <210> 2521
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2521
 aagaggcttc cgcagctgtc ygcaggttaa atcctggggg g 41

 <210> 2522
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2522
 cagggttaa cctgggggtgc raggaatgtt tggtcagctc c 41

 <210> 2523
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2523
 ataactggta caggtttact sgtgtctaca ctggcagaga a 41

 <210> 2524
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>

<221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 2524 41
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 <210> 2525
 <211> 55
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (33)..(35)
 <223> t is present or absent.

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 <210> 2526
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2526 41
 tccagcgtgc cgaccggccc sgcagcgcct ccacccctcc g

 <210> 2527
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2527 41
 gcgtccaggc gcgcgcgcca ractttggag ggagaagggg g

 <210> 2528
 <211> 41
 <212> DNA
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 <400> 2528 41
 agagaagaat ggggcagagc sggagcagcc aggggaggtg a

 <210> 2529
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 <212> DNA
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 <400> 2529 41
 ggatgagcac tgcccagctg rtccctgccc accttcaca g

 <210> 2530
 <211> 41
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<213> Homo sapiens
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 tccactgcag aggggacaca stgaccagga cggaagttgg g

 <210> 2531
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2531 41
 gggctgtcca tctttgtacc yctggttcca tcccagtgcc t

 <210> 2532
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2532 41
 ccttttcttc tctaaggcct raagagatga cagaatgctg c

 <210> 2533
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2533 41
 agcgcgtgga ctccacagcg rggtgtgggg tggcccctgg c

 <210> 2534
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 <212> DNA
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 <400> 2534 41
 gacagcttc agccctctgt stctattgcc ccaaactctgg c

 <210> 2535
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 <212> DNA
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 <400> 2535 41
 ctgtggcttc cctgggccct rggaaattta tcaactgaggt t

 <210> 2536
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2536 41
 gagtggggca ctgctggaag sttctgggtc ctgctttggt c

 <210> 2537
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<212> DNA
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 <400> 2537
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 <210> 2538
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 <400> 2538
 ctgagggcct gtcctgcagg kttgatgtgt ctgaagaggc c 41

 <210> 2539
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 <400> 2539
 gtctgaagag gccccgagaa yagaaatcta gaacctgcca g 41

 <210> 2540
 <211> 41
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 <400> 2540
 cagtcacgaa gcagtgtcac ycaccagagg atgaagaact g 41

 <210> 2541
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2541
 cttgcatctg gtgtaggtgc ytgggggtag cgtgcccagg a 41

 <210> 2542
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2542
 gacaggaacc ccaccccgag kgatgtcttg ccctgtgacc t 41

 <210> 2543
 <211> 41
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 <400> 2543
 gcttgactt ctgattcatt ytgacgtcac tggctctttg t 41

 <210> 2544

<211> 41
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 <400> 2544
 ccctggaagg gcctcactgc rgtgactcat taccagcat g 41

 <210> 2545
 <211> 41
 <212> DNA
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 <400> 2545
 acccacacag catgaatggg sccagcccca gcctgcccgc t 41

 <210> 2546
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2546
 gtagccacag ctggggctgt sgggtcaggg catggcaagg g 41

 <210> 2547
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2547
 ggatgtgtag ggtttgggct yggccttaag ggatgggtgg a 41

 <210> 2548
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2548
 gatgctggtc aggcatgtgc rttgggatct ttaacaccac c 41

 <210> 2549
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2549
 tatttagcat gtgggtttca mctttctggt ttttcaaagg g 41

 <210> 2550
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2550
 gacttggggc acgtccttgg scatgaatct tggctatgt c 41

<210> 2551
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2551
 agcaagaaag tgtgctcccc yacagcccca ctcaggcata a 41

 <210> 2552
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2552
 agcacacatg gagctttccc rcagtgggtt tcagcgctcc c 41

 <210> 2553
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2553
 agggaagccg aagcctcact ygctggggct tgcctggcct c 41

 <210> 2554
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 <212> DNA
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 tgtgaagttt tgcccacagt yggtagccat gggtcgcacc g 41

 <210> 2555
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 <210> 2556
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 <210> 2557
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 <212> DNA
 <213> Homo sapiens

 <400> 2557
 ggtgtgggga ggccagcagg rgtgtgggcc tcagcgggga g 41

<210> 2558
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 <212> DNA
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 <210> 2559
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 <400> 2559
 ctggaacagc aacttaaaaa wagaaatagt ccctggaagg g 41

 <210> 2560
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 <212> DNA
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 <210> 2561
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 <400> 2561
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 <210> 2562
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 <210> 2563
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 <210> 2564
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<210> 2565
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 <210> 2567
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 <210> 2568
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 <210> 2569
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 <400> 2573
 ggccctgcta atgtggacag yagactttat ccctccttct t 41

 <210> 2574
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 <213> Homo sapiens

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 <210> 2575
 <211> 41
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 <213> Homo sapiens

 <400> 2575
 taaagcaa ttaggctttt rtccttctgc aatacatgca c 41

 <210> 2576
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 <210> 2577
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 <400> 2577
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 <210> 2578
 <211> 41
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 <213> Homo sapiens

 <400> 2578
 ccattcccaa agtcagaaag ygaagccaga tctcaagggc t 41

<210> 2579
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 <210> 2580
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 <400> 2580
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 <400> 2581
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 <210> 2582
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 <400> 2582
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 <400> 2583
 tacgagacac cccttcacrg catacactgc catggtatg 39

 <210> 2584
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 <400> 2584
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 <210> 2585
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<210> 2586
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 <220>
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 <222> (21)..(21)
 <223> a is present or absent.

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 <220>
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 <222> (21)..(22)
 <223> at is present or absent.

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 <400> 2588
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<210> 2593
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<210> 2594
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 <222> (21)..(21)
 <223> t is present or absent.

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<210> 2595
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 <213> Homo sapiens

<220>
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 <222> (21)..(23)
 <223> ttc is present or absent.

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<400> 2596
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<210> 2597

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 <213> Homo sapiens

 <400> 2597
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 <400> 2598
 ccaaatgcat gccagcagag ygtggcagga aggtacacaa g 41

 <210> 2599
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 <400> 2599
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 <400> 2600
 cagaagatct tactctctaa kgaagctgga taacactttt t 41

 <210> 2601
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 <210> 2602
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 <213> Homo sapiens

 <400> 2602
 aaaccacata ctatttgatt mtgatgagaa tcacataacc a 41

 <210> 2603
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 <212> DNA
 <213> Homo sapiens

 <400> 2603
 tatgattcaa ctttcaaaag wgtattgtga tatgaaatag a 41

<210> 2604
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 <213> Homo sapiens

 <400> 2604
 caacttctgc catcttattg ratctgtact tacctagtaa t 41

 <210> 2605
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 <213> Homo sapiens

 <400> 2605
 tggtaagagg cttaagata mcaaatgctc agctttcagg a 41

 <210> 2606
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 <212> DNA
 <213> Homo sapiens

 <400> 2606
 tactcttaaa attaatcctt cttttattat aagtatacag tct 43

 <210> 2607
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 <212> DNA
 <213> Homo sapiens

 <400> 2607
 tactcttaaa attaatcctt ttattataag tatacagtct 40

 <210> 2608
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 <213> Homo sapiens

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 aattacgact aacgttgggg rcgaactctt tgctaaataa a 41

 <210> 2609
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2609
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 <210> 2610
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 <212> DNA
 <213> Homo sapiens

 <400> 2610
 tggccccaag ggaggcactt rgccctactg gggatgcgcg c 41

<210> 2611
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2611
 ttggggccgct gaccccgctc yctggggccca ggactgaccg c 41

 <210> 2612
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2612
 tatacaagac acaagatcta yaacagattt tagaccaaac a 41

 <210> 2613
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2613
 ttcacagatg aaggggttcc raaatttttg tcaagaaaga c 41

 <210> 2614
 <211> 41
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 <213> Homo sapiens

 <400> 2614
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 <210> 2615
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 <213> Homo sapiens

 <400> 2615
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 <210> 2616
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 <213> Homo sapiens

 <400> 2616
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 <210> 2617
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 <212> DNA
 <213> Homo sapiens

 <400> 2617
 aggatgccag ctcttttaaag ragacatcgt ttttgcttaa c 41

<210> 2618
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2618
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 <210> 2619
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2619
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 <210> 2620
 <211> 41
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 <400> 2620
 aaaacatcca cgcaaacagg ytgtgagaag ttacgtctgc g 41

 <210> 2621
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2621
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 <210> 2622
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2622
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 <210> 2623
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2623
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 <210> 2624
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 <213> Homo sapiens

 <400> 2624
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<210> 2625
 <211> 41
 <212> DNA
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 <400> 2625
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 <210> 2626
 <211> 41
 <212> DNA
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 <400> 2626
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 <210> 2627
 <211> 41
 <212> DNA
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 <400> 2627
 ctactgaaac gggataaatg yagcttgatg attttcagct g 41

 <210> 2628
 <211> 41
 <212> DNA
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 <400> 2628
 gtcacagttt aaatgctgct rttttactct gtgtaagtag c 41

 <210> 2629
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2629
 aagcatctct attttgaatg yagatcagca ctaaaagccc t 41

 <210> 2630
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2630
 gcaacgcccga gttcctggta yaggcctcat atccagcgtg c 41

 <210> 2631
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2631
 cctggaggga caaggatggc mggggcactc aacttcctc t 41

<210> 2632
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2632
 gttgtgtgac tgtgtggggc rtctcacctc tcgggctgca g 41

 <210> 2633
 <211> 41
 <212> DNA
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 <400> 2633
 atcttgccct cctcctgcc rtctgttcag gcttgaatcc t 41

 <210> 2634
 <211> 41
 <212> DNA
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 <400> 2634
 ccataatcct agcttgaacc ytcctttttc cctgctgacc c 41

 <210> 2635
 <211> 41
 <212> DNA
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 <400> 2635
 acataattat tgtaaakatg ycgcttacca gtgacattca t 41

 <210> 2636
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2636
 ccaggccact gattgctttc rcattttcta gcattttctt a 41

 <210> 2637
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2637
 tttctgtgtg gaaagctgat raagtcctca gatgacagcc c 41

 <210> 2638
 <211> 41
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 <213> Homo sapiens

 <400> 2638
 aataataatg accattttctg kaaattcata gaattccttt t 41

<210> 2639
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2639
 gaggacattc cacagaacgt rtgactatta gaggagaagg t 41

 <210> 2640
 <211> 41
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 <400> 2640
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 <210> 2641
 <211> 41
 <212> DNA
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 <400> 2641
 agaaagggtt acacaggagc rcacttctca gggagtgggtg t 41

 <210> 2642
 <211> 41
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 <400> 2642
 agggttacac aggagcacac ytctcagga gtggtgtgac g 41

 <210> 2643
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2643
 ctgtgaatcc tctcacctgc rtgaagggcc tggctgcctc t 41

 <210> 2644
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2644
 cacattgtta tgtaaccaag yctggaattg cagtgtgaag a 41

 <210> 2645
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2645
 attgttatgt aaccaagcct kgaattgcag tgtgaagaac t 41

<210> 2646
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 <212> DNA
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 <400> 2646
 tcttgactat tagaaaccct rtcagataaa ttttaaaaca g 41

 <210> 2647
 <211> 41
 <212> DNA
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 <400> 2647
 tggcttttggg tgggaacagc ragagatata gaaccgacgg t 41

 <210> 2648
 <211> 41
 <212> DNA
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 <400> 2648
 cttgaagctg atcggtccct mcttgaagct gatcggtccc t 41

 <210> 2649
 <211> 41
 <212> DNA
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 <400> 2649
 gccagacgtg actgcttttag rttcctcatg acattcagac c 41

 <210> 2650
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2650
 ttccaaatca cccagaact ktgcagtatt ttgaagctcc t 41

 <210> 2651
 <211> 51
 <212> DNA
 <213> Homo sapiens

 <220>
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 <222> (30)..(31)
 <223> c is present or absent.

 <400> 2651
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 <210> 2652
 <211> 61

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (36)..(41)
 <223> a is present or absent.

<400> 2652
 ctgtatccat tggaaggcac aaaaaaaaaa aaaaaaaaaa atgcaaagga aacaaggcaa 60
 a 61

<210> 2653
 <211> 56
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(36)
 <223> ggggtggcgg ggtggg is present or absent.

<400> 2653
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<210> 2654
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

<400> 2654
 ctctactggaa cttttttttt taatttaatt tttaaaattt t 41

<210> 2655
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2655
 cacttccatt ctgactgtta acggtgtgat tcttcctgcc a 41

<210> 2656
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 2656
 cacttccatt ctgactgtta cgggtgtgatt cttcctgcc 40

<210> 2657
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

 <400> 2657
 gcgcgtgctg tttctccctt atctgtcctt gtacacgtgt g 41

 <210> 2658
 <211> 52
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (31)..(32)
 <223> t is present or absent.

 <400> 2658
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 <210> 2659
 <211> 42
 <212> DNA
 <213> Homo sapiens

 <400> 2659
 aattccccca ttgcttctct ttctgtagac atttttaaacc ta 42

 <210> 2660
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 2660
 aattccccca ttgcttctct ctgtagacat tttaaacccta 40

 <210> 2661
 <211> 61
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(41)
 <223> tccctccttg aagctgatcg t is present or absent.

 <400> 2661
 ccctccttga agctgatcgt tccctccttg aagctgatcg tgtccaagat agttgctagg 60

<210> 2662
 <211> 76
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (45)..(46)
 <223> ca is present or absent.

<220>
 <221> misc_feature
 <222> (47)..(48)
 <223> ca is present or absent.

<220>
 <221> misc_feature
 <222> (49)..(50)
 <223> ca is present or absent.

<220>
 <221> misc_feature
 <222> (51)..(52)
 <223> ca is present or absent.

<220>
 <221> misc_feature
 <222> (53)..(54)
 <223> ca is present or absent.

<220>
 <221> misc_feature
 <222> (55)..(56)
 <223> ca is present or absent.

<400> 2662
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 tcatgaaaac tcttttc 76

<210> 2663
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2663
 ttaataaatg tttattcaat kaaaccaact gctaatatc t 41

<210> 2664
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 2664
 cctggagatt ttaactttct rcgaagtttt taaaaacaac t 41

<210> 2665
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2665
 ggagaagggg accgcatgca ragggtggca ggcagggagg g 41

 <210> 2666
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2666
 ccccttggga cggttctcac ytgtgccccca cttccccagt c 41

 <210> 2667
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2667
 gcccgcaagc attgctgtat rgcaccagg cctccagtga g 41

 <210> 2668
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2668
 cgagtaaaat ttttctaccg stttgtttta gagtgggtgc t 41

 <210> 2669
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2669
 aaaaaatttg tagatatggg kactccctat gttgcccagg c 41

 <210> 2670
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2670
 tccctatgtt gccaggetg rtcttgaatt cttggggtca a 41

 <210> 2671
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2671
 ttctcttcta agaagaagtc ygtgcagata cttagcacia a 41

<210> 2672
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2672
 tccagcatct tccctttcca yttttaagtt agactttttt t 41

 <210> 2673
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2673
 agagacattt agaatatatt mccttttaaag gtagagaata a 41

 <210> 2674
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2674
 atatattccc tttaaaggta sagaataacc cttcactgag a 41

 <210> 2675
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2675
 ggtttatagt gttccccccc wccccgcccc caaaagaccc a 41

 <210> 2676
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2676
 gaagctgccg ctccaggaag sagtctgtcg ttggagaaga g 41

 <210> 2677
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2677
 ggaaagctgg ggaactgttt kcctggaaca gagtctcaaa a 41

 <210> 2678
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2678
 tgtcaactgc gtaacacagg ygtagaagtg gacattgttt t 41

<210> 2679
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2679
 ttttaatagaa aatggtattc ytgtcttttc tttcccatct c 41

 <210> 2680
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2680
 gggtaaacc attttgaata ytagcattgc caatatcctg t 41

 <210> 2681
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2681
 tatttgcttt ctttctctct ytgttttctt tttctctgaa a 41

 <210> 2682
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2682
 cagcacgttt ttcctatgaa yaagacattc tccaaataac t 41

 <210> 2683
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2683
 tggctctgtg tgcattgaaca ygcacgcgtg cacgcgcaca c 41

 <210> 2684
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2684
 atgaacatgc acgcgtgcac rcgcacacac acacacacac a 41

 <210> 2685
 <211> 60
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature

<222> (39)..(40)
 <223> a is present or absent.

<400> 2685
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<210> 2686
 <211> 42
 <212> DNA
 <213> Homo sapiens

<400> 2686
 ccccttcaat actagaacaa aagcagacac attaaatggt ac 42

<210> 2687
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 2687
 ccccttcaat actagaacaa gcagacacat taaatgttac 40

<210> 2688
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

<400> 2688
 actatttcaa tttttttttt tggaggggga gacagagtct c 41

<210> 2689
 <211> 53
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (30)..(33)
 <223> t is present or absent.

<400> 2689
 cccagcatta taagaatgac tttttttttt tttaagtgca gatgtgggga ggg 53

<210> 2690
 <211> 42
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
<222> (21)..(22)
<223> aa is present or absent.

<400> 2690
tagcatttgg caaaggagaa aatgccaaga agtatcttcg aa

42

<210> 2691
<211> 49
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> n is t or g.

<220>
<221> misc_feature
<222> (22)..(22)
<223> n is t.

<220>
<221> misc_feature
<222> (23)..(23)
<223> n is g or c.

<220>
<221> misc_feature
<222> (24)..(24)
<223> n is a or c.

<220>
<221> misc_feature
<222> (25)..(25)
<223> n is c or a.

<220>
<221> misc_feature
<222> (26)..(26)
<223> n is a.

<220>
<221> misc_feature
<222> (27)..(27)
<223> t is present or absent.

<220>
<221> misc_feature
<222> (28)..(28)
<223> a is present or absent.

<220>
<221> misc_feature
<222> (29)..(29)
<223> t is present or absent.

<400> 2691
agaaaactgg atgtctgaaa nnnnnnnnnc actgcacttg tatgtgttg

49

<210> 2692
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(23)
<223> cta is present or absent.

<400> 2692
ggatttttaga ttctctcccta ctattctttc cgaccttcca ccc 43

<210> 2693
<211> 50
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(30)
<223> t is present or absent.

<400> 2693
tttccatttt taagtttagac tttttttttt cacctctctc gttacttcag 50

<210> 2694
<211> 59
<212> DNA
<213> Homo sapiens

<400> 2694
tcctcttcat gtctctatgt gagatgttgt ggctcacata gtcacacctt ttgtgagac 59

<210> 2695
<211> 40
<212> DNA
<213> Homo sapiens

<400> 2695
tcctcttcat gtctctatgt agtcacacctc tttgtgagac 40

<210> 2696
<211> 42
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(22)
<223> cc is present or absent.

<400> 2696
acacacacac acacacacac cctgctctgg agttgggcaa ct 42

<210> 2697
 <211> 43
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(23)
 <223> act is present or absent.

 <400> 2697
 ttagaatagt ttctaactat actttttactc ccaagagaag ctt 43

 <210> 2698
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2698
 ctttctgatt tttgatagtc sgttgaagaa gggagtttga a 41

 <210> 2699
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 <212> DNA
 <213> Homo sapiens

 <400> 2699
 ataacatctt ctgcagagaa mcttcaatgg aaatacactc a 41

 <210> 2700
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 <400> 2700
 tacagattat ctttggtgat sggagagctt agaagagaca t 41

 <210> 2701
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2701
 atttcagaag atttattaac wtgaaaagga tcactctgct t 41

 <210> 2702
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2702
 acatgaaaag gatcactctg yttattcaca gacatatgca t 41

 <210> 2703
 <211> 41

<212> DNA
 <213> Homo sapiens

 <400> 2703
 aaattattca atctcttttg rcagtgggtt ctttttcttt g 41

 <210> 2704
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2704
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 <210> 2705
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2705
 gagaagtaag acacattacc yataaatctg taaatatcct a 41

 <210> 2706
 <211> 41
 <212> DNA
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<223> gt is present or absent.
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 <210> 2915
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 <223> ttta is present or absent.

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<220>
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 <223> a is present or absent.

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 <220>
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 <223> t is present or absent.

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 <223> cttgta is present or absent.

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 <223> ctt is present or absent.

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 <210> 2924
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 <212> DNA
 <213> Homo sapiens

 <400> 2924
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 <210> 2925
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 <212> DNA
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 <400> 2925
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 <210> 2926
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 <222> (21)..(21)
 <223> a is present or absent.

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 <223> a is present or absent.

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45

A
mo sapiens

45
g tattttgaca kctttaccac atttcttcat g

41

46

A
mo sapiens

46
t ttttatactt rtaagtgggc agttaccttt t

41

47

A
mo sapiens

47
t gttgctctta yagttatagg tattctaaag a

41

48

A
mo sapiens

48
c tataaagttt stgatattct ttaacaaaat t

41

49

A
mo sapiens

49
a caaaattgat wtaagaacaa ataggaagaa c

41

50

A
mo sapiens

50
t gcacctgttc rcttatatgc agcttttgtc c

41

51

A
mo sapiens

51
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41

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<210> 2966
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 <213> Homo sapiens

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<210> 2973
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 <400> 2973
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 <210> 2981
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 <400> 2981
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 <210> 2983
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 <400> 2983
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 <210> 2984
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 <400> 2984
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 <210> 2985
 <211> 41
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 <213> Homo sapiens

 <400> 2985
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 <210> 2986
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 <212> DNA
 <213> Homo sapiens

 <400> 2986
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<210> 2987
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 <400> 2987
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 <210> 2988
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 <400> 2988
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 <210> 2989
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 <400> 2989
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 <210> 2990
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 <212> DNA
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 <400> 2990
 cagaacagaa attactcagc racttgggt gaatgcccaa g 41

 <210> 2991
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2991
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 <210> 2992
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2992
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 <210> 2993
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 <400> 2993
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<210> 2994
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 <210> 2995
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 <210> 2996
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2996
 taaaatgaat cggtaaaaca ktcattgtata aatcactgtc a 41

 <210> 2997
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 2997
 ataggcatat aatactcttt mttccctctg tatataggga g 41

 <210> 2998
 <211> 41
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 <400> 2998
 aacagctgtg gagcacaagg rgcttgtagg atatataatt c 41

 <210> 2999
 <211> 44
 <212> DNA
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 <220>
 <221> misc_feature
 <222> (21)..(24)
 <223> tatc is present or absent.

 <400> 2999
 atatacataa catataccta tatctatggt atgtgtctgc ttat 44

 <210> 3000

<211> 58
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(38)
 <223> atattcactt ggtatctg is present or absent.

 <400> 3000
 agcatcagca acaattaaaa atattcactt ggtatctgta gtttaataat ggaccaac 58

 <210> 3001
 <211> 44
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(24)
 <223> ttta is present or absent.

 <400> 3001
 tattcacttg gtatctgtag tttaataatg gaccaacatc aaca 44

 <210> 3002
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3002
 cctgttcgct tatatgcagc ttttgtcca accaaacaga a 41

 <210> 3003
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 3003
 cctgttcgct tatatgcagc ttttgtccaa ccaaacagaa 40

 <210> 3004
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> g is present or absent.

 <400> 3004
 tataactttc tctttataaa gatgcaaaat gttatagcat t 41

<210> 3005
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 3005
aaaaataaat gaagtggagg aaaaaaaatg atttcaagtt t 41

<210> 3006
<211> 51
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(31)
<223> a is presesnt or absent.

<400> 3006
acatccatgt ttaacagaat aaaaaaaaaa atatitttgta acgacaaaag a 51

<210> 3007
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> g is present or absent.

<400> 3007
gagattgttt aaccaaatta ggaaactatt attcaacaca c 41

<210> 3008
<211> 50
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (29)..(30)
<223> at is present or absent.

<400> 3008
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<210> 3009
<211> 48

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (28)..(28)
 <223> t is present or absent.

<400> 3009
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<210> 3010
 <211> 63
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (40)..(43)
 <223> t is present or absent.

<400> 3010
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 tgt 63

<210> 3011
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

<400> 3011
 ttctttctta actcaaaggc tttttttttt ccatgtgaca c 41

<210> 3012
 <211> 44
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(24)
 <223> tgat is present or absent.

<400> 3012
 aaaaatctta aggcacacac tgattgacag ttgccttgat tgta 44

<210> 3013
 <211> 50

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (29)..(30)
 <223> t is present or absent.

<400> 3013
 aaataaattg ttggcatcta tttttttttt attttttctaa gggtcgctgt 50

<210> 3014
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

<400> 3014
 gagaaaagcc tgatgccttt aaaaaaaaaat gaaacacttt g 41

<210> 3015
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3015
 gcagctcgga ctcagctccc rgagcaaccc agctgcggag g 41

<210> 3016
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3016
 gaaggcctca gccccagcc rctgggctgg gcctggccca a 41

<210> 3017
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3017
 caatagaaca accttttctc rggctcatgc cgccctgacc c 41

<210> 3018
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3018
 ttctctggct tccccactc mgtttctccag cctgcctgct c 41

<210> 3019
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3019
 gagacttccc atgataacct yccagggctt ccccccaaa c 41

 <210> 3020
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3020
 gaaccagatg cccccagcct ygactcagtc ccagtctcca c 41

 <210> 3021
 <211> 55
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (34)..(35)
 <223> a is present or absent.

 <400> 3021
 ggaagatggg ggcctttgtt aaaaaaaaaa aaaaagtaca tggagaaatt aactg 55

 <210> 3022
 <211> 55
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (33)..(35)
 <223> a is present or absent.

 <400> 3022
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 <213> Homo sapiens

 <400> 3023
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 <210> 3024
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3024
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<210> 3025
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3025
 ccacatccat cattcgagac maactcgtct cagctgccat g 41

<210> 3026
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3026
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<210> 3027
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 <213> Homo sapiens

<400> 3027
 actagactgc tagtgcctc yggtagagccc agtcccatag g 41

<210> 3028
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<400> 3028
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<210> 3029
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<210> 3030
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 <212> DNA
 <213> Homo sapiens

<400> 3030
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<210> 3031
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3031
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<210> 3032
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3032
 cctgcccaca gctctggctc rtcttgcccc agtgccatga c 41

<210> 3033
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<400> 3033
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<210> 3034
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3034
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<210> 3035
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 <213> Homo sapiens

<400> 3035
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<210> 3036
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3036
 tctgctccac ccgtgcaccc scaaagaggc aaagagctgg g 41

<210> 3037
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3037
 tggcggttggc tgcagttaac wgtgtccatt cccttcttcg t 41

<210> 3038
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3038
 tcgaagtaca aaggaaagtt yaaagagaag cctgagcctg g 41

<210> 3039
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 <213> Homo sapiens

<400> 3039
 gaccaatggg tttcagactc raagacaaaa attatgttta t 41

<210> 3040
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 <212> DNA
 <213> Homo sapiens

<400> 3040
 gcccacgtca gacatgacca rtcaatcaca gcactttctc c 41

<210> 3041
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 <212> DNA
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<400> 3041
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<210> 3042
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 <212> DNA
 <213> Homo sapiens

<400> 3042
 tacatttggt ccccaggggg gagcggtga tcaggagaga a 41

<210> 3043
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 <212> DNA
 <213> Homo sapiens

<400> 3043
 tacatttggt ccccaggggg agcggctgat caggagagaa 40

<210> 3044
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(22)
 <223> aa is present or absent.

<400> 3044
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<210> 3045
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3045
 cagggatcct cattctgagc scgagggcgag ggggactcgc a 41

 <210> 3046
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> g is present or absent.

 <400> 3046
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 <210> 3047
 <211> 53
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (32)..(33)
 <223> t is present or absent.

 <400> 3047
 ttttgaactg aagaacttac tttttttttt tttataacga acgttgacat ctt 53

 <210> 3048
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3048
 gcatgcagct tagaagtttt rttttatgag ggtctctaac c 41

 <210> 3049
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

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<210> 3050
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3050
 tcagctcttt agtgagactt staaattttc taagacaagc a 41

 <210> 3051
 <211> 51
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (30)..(31)
 <223> t is present or absent.

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 <210> 3052
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3052
 tactgtaaga caatatgtta ytggtttttg tcttgctaaa c 41

 <210> 3053
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3053
 ttgggaccca catagagtca ytacttaaaa taaatgacca g 41

 <210> 3054
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 3054
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 <210> 3055
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3055
gacttttata attttgtata rctgatatta taggaataca c 41

<210> 3056
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> t is present or absent.

<400> 3056
aaagagttat gttttttttt tctgcatctg atattatatg g 41

<210> 3057
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<212> DNA
<213> Homo sapiens

<400> 3057
ttgtcttttt atttattcat ytaaacttct gttttctggg g 41

<210> 3058
<211> 41
<212> DNA
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ccttccaaac ctttacttaa sattgtctgt tttggtcata a 41

<210> 3059
<211> 41
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<213> Homo sapiens

<400> 3059
cataaattgt cagtcaaact rcatgttaat agaggacttc a 41

<210> 3060
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> t is present or absent.

<400> 3060
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<210> 3061

<211> 41
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 <213> Homo sapiens

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 <210> 3062
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 <212> DNA
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 <400> 3062
 aactccaggt tgcaaataga ygtttctggt attttaagta g 41

 <210> 3063
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3063
 ttttgaaagc cctcctagca kttctttaat ttctttattg a 41

 <210> 3064
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3064
 agataaattg atgaattatt yactctgtgc tgctgataga t 41

 <210> 3065
 <211> 44
 <212> DNA
 <213> Homo sapiens

 <400> 3065
 taaaaagaat ttctaaaaga aagacctttt ttttgaataa ctct 44

 <210> 3066
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 3066
 taaaaagaat ttctaaaaga cctttttttt gaataactct 40

 <210> 3067
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3067
 ctgaaataga aacctttcag wgtaccttgc agagcagtga a 41

<210> 3068
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3068
 cagtgtcata aagatccagc rgaaatcaaa atgtttcata t 41

 <210> 3069
 <211> 44
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 <220>
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 <222> (21)..(24)
 <223> aaaa is present or absent.

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 <213> Homo sapiens

 <400> 3070
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 <210> 3071
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 <400> 3071
 ttggttcaaa gccttcttca rccttaggat atgcattgag g 41

 <210> 3072
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 <400> 3072
 gtttgagaca ttaacttcta rttcaactga agatgctagt t 41

 <210> 3073
 <211> 51
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (30)..(31)
 <223> t is present or absent.

<400> 3073
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<210> 3074
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 <212> DNA
 <213> Homo sapiens

<400> 3074
 atcagtacaa tgtgttgggc rtacaacact taattttaaaa t 41

<210> 3075
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 <212> DNA
 <213> Homo sapiens

<400> 3075
 taatacaaat catttgaagc rtttactatt aaaaaaaciaa a 41

<210> 3076
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3076
 ctttgagcac ctactgcatt wtaagtgctg ttaagatgtg g 41

<210> 3077
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3077
 ttaatcacct caatctttaa ygaatttctt gatttttctt t 41

<210> 3078
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 <212> DNA
 <213> Homo sapiens

<400> 3078
 aatcaggata tgggggggttc rttctttatt ctgccacaaa t 41

<210> 3079
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3079
 cattttaaaa tagtgcttta rtaggacttg gctgttaaag t 41

<210> 3080
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 <212> DNA
 <213> Homo sapiens

<400> 3080
 tggcataggt ttaaaaatgt ytggttagg actcttttcc a 41

<210> 3081
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (21)..(21)
 <223> a is present or absent.

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 <212> DNA
 <213> Homo sapiens

<400> 3082
 ggatgatgct acccaaggaa ytgcacactt ccagacagta c 41

<210> 3083
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 <212> DNA
 <213> Homo sapiens

<400> 3083
 tcactccatt ttttaactgt scttcctaaa tgtgtggtta a 41

<210> 3084
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3084
 tctttgttac acttcttaaa ycggggtatc agataatctt c 41

<210> 3085
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3085
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<210> 3086
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3086
 gcctctcaat tttctcatgt ktaatagaga gaaaaccctg c 41

<210> 3087
 <211> 41
 <212> DNA
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 <400> 3087
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 <210> 3088
 <211> 41
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 <400> 3088
 tgttattacc atagtagttc ygtaacactt ggccgttgac t 41

 <210> 3089
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3089
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 <210> 3090
 <211> 41
 <212> DNA
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 <400> 3090
 gtaaaaggaa tccttcagaa ycagagggga tggtagggac c 41

 <210> 3091
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3091
 catacacttc tgctccgttt kccctgtcat tctgtgagcc a 41

 <210> 3092
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3092
 tattcatact gtgaaaaagg wgtttcatgg tgaagaaatt c 41

 <210> 3093
 <211> 41
 <212> DNA
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 <400> 3093
 ccacacctaa atgagattcc ygttttaaac actctcaagc t 41

<210> 3094
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 <400> 3094
 tgcacatata tactcattgt rgtttttact aggaactaga c 41

 <210> 3095
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 <213> Homo sapiens

 <400> 3095
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 <210> 3096
 <211> 41
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 <213> Homo sapiens

 <400> 3096
 cattgtgcta gattaggtgc yggggtaggt atgaaggggc a 41

 <210> 3097
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3097
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 <210> 3098
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3098
 gattatggct gattttcagt ktcttttttaa tatttttctc t 41

 <210> 3099
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3099
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 <210> 3100
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3100
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<210> 3101
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3101
 ctctatttgg cctaacggta ycttggtttt cttttacttc c 41

 <210> 3102
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3102
 ttgggtcata agagctctct scatggtgtc tcaaacagat g 41

 <210> 3103
 <211> 53
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (32)..(33)
 <223> t is present or absent.

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 <210> 3104
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3104
 aataggatac aaatacacia wtagatgat tcagatccta a 41

 <210> 3105
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3105
 taaaatcggt tttattgtta ytaggtatat aaaatttgct a 41

 <210> 3106
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3106
 tctgatttta tcaactgttta yagattgctt agtcatactc a 41

 <210> 3107

<211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3107 41
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<210> 3108
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3108 41
 atgaggtccg acttttaaga yttttgtcta cattttcttc c

<210> 3109
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3109 41
 tattgatgga gttcttttta kaaatggact tttaccttct t

<210> 3110
 <211> 41
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 <400> 3110 41
 gcatttgggt gtctgagaga yatatccaga aatatgctat g

<210> 3111
 <211> 41
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 <213> Homo sapiens

 <400> 3111 41
 tttcaagttt atttctgttt kttttttttt tttttttttt g

<210> 3112
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3112 41
 aatccaaaca tctgtacttt ktagtggaca agatttatgt c

<210> 3113
 <211> 41
 <212> DNA
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 <400> 3113 41
 gaaaagctac tttattcaaa rataaaagta ttttaagaaa a

<210> 3114
 <211> 41
 <212> DNA
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 <400> 3114
 aagctggaga aaatactagg ytttcctcaa cagtgatttc c 41

 <210> 3115
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3115
 tttggagggg aactaatccc rtgacttcta ggttatctct t 41

 <210> 3116
 <211> 41
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 <400> 3116
 ttcaccctc attttaggtt rggggaggtg gcttgctaca g 41

 <210> 3117
 <211> 41
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 <400> 3117
 cctcatttta ggtagggga rgtggcttgc tacagtttta g 41

 <210> 3118
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3118
 cgtgaatcat tcagtatttt rtttaaaaat accagtttga a 41

 <210> 3119
 <211> 44
 <212> DNA
 <213> Homo sapiens

 <400> 3119
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 <210> 3120
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 3120
 catgatttat tctctaacta tgctaagtca aagattctgc 40

<210> 3121
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3121
 acaatgaaaa ttaagaaagg wgaagaggga agaagcagag a 41

 <210> 3122
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3122
 tacaagacac aggcattctt ractagttta ctgggatctc t 41

 <210> 3123
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3123
 ggctttgact tcggaaacct ktgggttata acaaagtact g 41

 <210> 3124
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3124
 gacattggtg aaaaccaggg ytggttagga gtgtcctgtc c 41

 <210> 3125
 <211> 43
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(23)
 <223> gtg is present or absent.

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 <210> 3126
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3126
 gatacatgaa caatttggtt yatcctcatg atatctttca a 41

 <210> 3127
 <211> 41

<212> DNA
 <213> Homo sapiens

 <400> 3127 41
 taaaggccac aatgcagtga ytgaaatctc cagttacatt t

 <210> 3128
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3128 41
 tttccttagt ccttccatca ygaaactaaa gctgtcttcc a

 <210> 3129
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3129 41
 tttatatctc cacttttgat rggacactag caaaagatat t

 <210> 3130
 <211> 52
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (32)..(32)
 <223> t is present or absent.

 <400> 3130 52
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 <210> 3131
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3131 41
 ttttttttcc ctccacttgt ygccaggcag agctgctttc c

 <210> 3132
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3132 41
 cagattgctt gaatttcagc mccagcttgg aatttgcaga g

 <210> 3133
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3133
 gatttctgtg aaaattgaga rgatctggca acctggggct c 41

<210> 3134
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3134
 ggccccctccc caggcaaagc rgtgagaaca tggctgtttc c 41

<210> 3135
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3135
 tggagcgggc caagagggcg rtagtgggga gtccctttga c 41

<210> 3136
 <211> 41
 <212> DNA
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<400> 3136
 aaccagtctg gacagatccc ytgtagcttg tgaaagtga g 41

<210> 3137
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3137
 tagcttgtga aagtgtagga rgtgaagggc tggctcactt c 41

<210> 3138
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3138
 tctgaaggcc tcgtgtactt yagtggggtg gggagggcca c 41

<210> 3139
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3139
 aatttttgcc tctttttact rtcaatacaa cttgctaagt t 41

<210> 3140
 <211> 43
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(23)
 <223> tta is present or absent.

<400> 3140
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<210> 3141
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3141
 ctaaatgtgg gtcactggga ygttaaccag gagagagaat c 41

<210> 3142
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3142
 ctttacatct gtgcaagaga rggacaagga gcaaatcagc c 41

<210> 3143
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3143
 gtaaacttgc attgaaatgt rgaaagcagg taaaggaatg a 41

<210> 3144
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3144
 tggggaatac caaaagcaac yaaagttcac cagaaaagg g 41

<210> 3145
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3145
 aaacttctaa aagaaatacc rtgccagtca gattatgtgc t 41

<210> 3146
 <211> 41
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 <213> Homo sapiens

<400> 3146
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<210> 3147
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3147
 gatagggaag atcactgtga rctggaaaaa tctgggaaac c 41

 <210> 3148
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3148
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 <210> 3149
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3149
 ctacttaccc ccaaaacatg wtttctcttt cttaaagac c 41

 <210> 3150
 <211> 41
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 <213> Homo sapiens

 <400> 3150
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 <210> 3151
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3151
 cacttgaaag caaccataat ygtgagggtt ctgatgctgt a 41

 <210> 3152
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3152
 ttgctttaag cgaaatgaac yatacggaca ggagaacagc c 41

 <210> 3153
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3153
 acaggaacac ttagacatgc racccactcc caccctccgt c 41

<210> 3154
 <211> 41
 <212> DNA
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 <400> 3154
 cccaccctcc gtcttggggg gaggaaagca cactactgtc c 41

 <210> 3155
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 3155
 cccaccctcc gtcttggggg aggaaagcac actactgtcc 40

 <210> 3156
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3156
 actgtcccaa agaactaata actgaaccag tgctgccttg t 41

 <210> 3157
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 3157
 actgtcccaa agaactaata ctgaaccagt gctgccttgt 40

 <210> 3158
 <211> 43
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(23)
 <223> cct is present or absent.

 <400> 3158
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 <210> 3159
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3159
 catcccagga cttgctgttc scaggtgata aactgcacct c 41

 <210> 3160

<211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3160
 aactgcacct ccccaggact mccgctgcac tcacatgcag c 41

 <210> 3161
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3161
 tttgggccgg gaacaatttt ycaaggttgt aaagccaaat t 41

 <210> 3162
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3162
 acctgggata ttcttgacct matctggttt tcttttacct a 41

 <210> 3163
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3163
 atagagactg gaagtcatca ygtgcagttc accgcttctg a 41

 <210> 3164
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3164
 cgtgctccac tgagctctc kgtcacaccc cattcttgcc c 41

 <210> 3165
 <211> 41
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 <400> 3165
 tgcagctgta aaaagaaatc ygtaaatggt gaccgtacta c 41

 <210> 3166
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3166
 cagtgttagc cagccgatat yggtaaggc tgccccgctc g 41

<210> 3167
 <211> 41
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 <213> Homo sapiens

 <400> 3167
 ccattatccc ctttccccgg yctcagctgt gcactccagg c 41

 <210> 3168
 <211> 41
 <212> DNA
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 <400> 3168
 aacttaccct tctatccagc wctatccaga aggacaccag g 41

 <210> 3169
 <211> 43
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(23)
 <223> gga is present or absent.

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 <210> 3170
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 3170
 acggaggcct caaaacagga aaataaggag acccctcccc 40

 <210> 3171
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3171
 gcacagcttt tgtcaggagt ycgtagctcc ggtctttgtt c 41

 <210> 3172
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3172
 gccttaactt tccccacctt kggcttctct tgatttttgc t 41

 <210> 3173
 <211> 41

<212> DNA
 <213> Homo sapiens

 <400> 3173
 gtacaggatt tcaaaatact rtatatagaa accagacagt a 41

 <210> 3174
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3174
 cctgttgtct tgggtgggtgc rcaacctttg ccagttaaag g 41

 <210> 3175
 <211> 41
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 <213> Homo sapiens

 <400> 3175
 agaggataga agtcccttct ratttagagg gcctctttct t 41

 <210> 3176
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3176
 tgaaaacata ttctttttga rtttagctga gtggcctggt g 41

 <210> 3177
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3177
 cctgagacac cttacagctc ygtcctgctt ccatgtcatt c 41

 <210> 3178
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3178
 tttcatcttt ctacaaatgg scccctcttc ctggctgcac t 41

 <210> 3179
 <211> 54
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (33)..(34)
 <223> t is present or absent.

<400> 3179
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<210> 3180
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3180
 ccaaaagccc tctcttttaa yatgacatta ataagacaat t 41

<210> 3181
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3181
 caagatggat aagacgtcac ytaaggtcct tagcatgttg a 41

<210> 3182
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3182
 ctctaagtaa ttcaattatg katgaccaaa ggataaggaa a 41

<210> 3183
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<400> 3183
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<210> 3184
 <211> 57
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 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (37)..(37)
 <223> t is present or absent.

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<400> 3185
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<210> 3186
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 <400> 3186
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 <210> 3187
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 <212> DNA
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 <400> 3187
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 <210> 3188
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 <212> DNA
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 <400> 3188
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 <210> 3189
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 <212> DNA
 <213> Homo sapiens

 <400> 3189
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 <210> 3190
 <211> 41
 <212> DNA
 <213> Homo sapiens

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 <210> 3191
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 <213> Homo sapiens

 <400> 3191
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 <210> 3192
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 <213> Homo sapiens

 <400> 3192
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<210> 3193
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3193
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 <210> 3194
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3194
 agagccccc ctgactgttt scctaaggca ccattcccaa c 41

 <210> 3195
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 tttaaagaac agtgagtcac rtgacttgct ctttgaaatg c 41

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 gacatgccat cagaccactg ygagtgttca ggcagcctac c 41

<210> 3604
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 ctccttccac acttgtgtgc rgggacattc actacctcct a 41

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 <210> 3607
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 <400> 3607
 aataaaaagg ragacaaaac ratccacaag ctagagatgg t 41

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 <213> Homo sapiens

 <400> 3608
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 <210> 3609
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 <400> 3609
 aatgtaacag ccaaagtcct rgaaaaaggc aagccagttc c 41

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 <400> 3610
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<210> 3611
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 tctccccaac atttatgtgg maagtaagtt tacatttggt t 41

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 <400> 3612
 taaatttgaa tgagtaattc rtccatctcg gcctcagttt c 41

<210> 3613
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 aaaaccccat gaagtgggtca rggcaggcat cattatctcc a 41

<210> 3615
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 tagtagagta tgtgttggtc ragcagagcc aggggcaagc a 41

<210> 3616
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 <400> 3616
 tccttgggca agttaatctt ratgaagaga ctgggtgttc t 41

<210> 3617
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<210> 3618
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 <400> 3618
 agagtcagac tctggaaagk mgggggggata agaacacagc c 41

 <210> 3619
 <211> 41
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 gtattttcat gtaaattatc mratacacag ctgctatgga a 41

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 <400> 3620
 tattttcatg taaattatcm ratacacagc tgctatggaa a 41

 <210> 3621
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 ctagacaaaag gggmagctcc ygcccactag aaacttgcag g 41

 <210> 3622
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 <400> 3622
 gacactgtac agccagccca mtcctgaccc cttttcttca t 41

 <210> 3623
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 <400> 3623
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 <210> 3624
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 <213> Homo sapiens

 <400> 3624
 atttggttcc cagttttatg kagggtcatc atccctgtgt t 41

<210> 3625
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 <400> 3625 41
 cctcttcccc tccttgctct maccctgtct cagttctcag t

 <210> 3626
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 <400> 3626 41
 gttctcagtc cggtttcttc rtatcttgca gatttatccr g

 <210> 3627
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 crtatcttgc agatttatcc rggcacctcc agcccagcag t

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 <400> 3628 41
 tttgtagcct attcctataa raatgcacca ttgcttcsca t

 <210> 3629
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 taaraatgca ccattgcttc scattacctc cctccacaca t

 <210> 3630
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 <400> 3630 41
 acctccctcc acacattttt rcaaaaygtt tcaggaggtt t

 <210> 3631
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 <400> 3631 41
 ctccacacat ttttrcaaaa ygtttcaggg agtttactga g

<210> 3632
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 <400> 3632
 ttaaacagac tggcccccta ygggcaggac agagaggatg a 41

 <210> 3633
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 <400> 3633
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 ggcaggacga gtcctgagca ygcttcactg gctcagacag g 41

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 actgagctgg acgctagaaa kaaactatag gcttaagaca c 41

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 <210> 3637
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 <400> 3637
 ttgaaggata ctgagtaatt rctttttttc ttgcagtatt t 41

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 <400> 3638
 gtgtttggtt cacacagctc yggagaaaaa caagtcaygg c 41

<210> 3639
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 <400> 3639
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 <210> 3640
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 <400> 3640
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 <400> 3641
 atgcatgcag agcctggctg rgatgagggg gggctgctac c 41

 <210> 3642
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 <400> 3642
 accattatc tcaacagatc sgggacctgt ggcctattta c 41

 <210> 3643
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 <400> 3643
 aagtcactaa gctggttggt rggaggaaca gcacataacy c 41

 <210> 3644
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 <400> 3644
 trggaggaac agcacataac ycaccttatc tatgctgagg t 41

 <210> 3645
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3645
 ggacactgca tagatatcta yagaaatagc agcatgtcag g 41

<210> 3646
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 <400> 3646
 acactctctg gtggaccatc mctcatccaa gagagggtaa c 41

 <210> 3647
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3647
 tctcgctctt ctcttacctc yaggtgtttg taaattttgc t 41

 <210> 3648
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3648
 agagagcccc acccacacca yggtcctac caagtcccca c 41

 <210> 3649
 <211> 88
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 <221> misc_feature
 <222> (63)..(65)
 <223> tca is present or absent.

 <220>
 <221> misc_feature
 <222> (66)..(68)
 <223> tca is present or absent.

 <400> 3649
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 catcatcaat ttttcagtct ggttcctg 88

 <210> 3650
 <211> 50
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (29)..(30)
 <223> a is present or absent.

 <400> 3650
 gaggggcgagg gactataggc aaaaaaaaaa cagcctaatt caaggatgag 50

<210> 3651
<211> 49
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(29)
<223> cacagtcac is present or absent.

<400> 3651
ttgttggctt tgcaawggat cacagtcatt tattcactca ttcattcac

49

<210> 3652
<211> 42
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(22)
<223> tt is present or absent.

<400> 3652
cctgtccatc agactcttct ttacctctcc ccgaggagcc ca

42

<210> 3653
<211> 52
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)..(32)
<223> a is present or absent.

<400> 3653
cctgggtgac agagcgagat aaaaaaaaaa aatagcatga gatattatta ct

52

<210> 3654
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> c is present or absent.

<400> 3654
cacaaagcat ctgacacccc catccagccc tggctaactt t

41

<210> 3655

<211> 58
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (37)..(38)
 <223> a is present or absent.

<400> 3655
 cactaaaaac aaaaatttac aaaaaaaaaa aaaaaaaacc tgaaagaaat tgcaggca 58

<210> 3656
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> g is present or absent.

<400> 3656
 ttcatgacag atcagatggt gcttttatgg attacaaaag a 41

<210> 3657
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 3657
 ttcatgacag atcagatggt cttttatgga ttacaaaaga 40

<210> 3658
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> c is present or absent.

<400> 3658
 tttccttctt caaaccccc cagactagga gaaggtctgt c 41

<210> 3659
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)

<223> t is present or absent.

<400> 3659
gggacggaca gaaaaagacc tagtttctgt tgagccaaag a 41

<210> 3660
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 3660
tattttttca attaaataaa agagtttttt gtttctaaaa g 41

<210> 3661
<211> 42
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(22)
<223> tg is present or absent.

<400> 3661
gggccgagta tgcacactga tgtgtgggaa agttagagaa sa 42

<210> 3662
<211> 40
<212> DNA
<213> Homo sapiens

<400> 3662
gggccgagta tgcacactga tgtgggaaag ttagagaasa 40

<210> 3663
<211> 53
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)..(33)
<223> t is present or absent.

<400> 3663
atcttcccca cctttcacta tttttttttt tttgggtcttc tatggggtaa agg 53

<210> 3664
<211> 66

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (43)..(44)
 <223> gt is present or absent.

<220>
 <221> misc_feature
 <222> (45)..(46)
 <223> gt is present or absent.

<400> 3664
 gtaccctgga cctcccagaa gtgtgtgtgt gtgtgtgtgt gtgtgtgaga gagatgtgcc 60
 ttctctg 66

<210> 3665
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

<400> 3665
 atagggggcag aaaagacaca accaaaagtt ctctctcact t 41

<210> 3666
 <211> 40
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> g is present or absent.

<400> 3666
 catgatcaga gtaagggggg gtggaggatg gggaggggag 40

<210> 3667
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> g is present or absent.

<400> 3667

ggagaggaaa tgatgttagt gcctcctgta aataggccca g 41

<210> 3668
<211> 51
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(31)
<223> t is present or absent.

<400> 3668
tgctcttttg tgggtaatgg tttttttttt tcctcttcca ggagaagaaa a 51

<210> 3669
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> g is present or absent.

<400> 3669
cggggtggag gggtgggagg gctcatttgc cattatagat g 41

<210> 3670
<211> 40
<212> DNA
<213> Homo sapiens

<400> 3670
cggggtggag gggtgggagg ctcatttgtc attatagatg 40

<210> 3671
<211> 42
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(22)
<223> tt is present or absent.

<400> 3671
tgctgccttc atcttctctc ttaaactagt tctgtatttc tc 42

<210> 3672
<211> 49
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (28)..(29)
 <223> a is present or absent.

 <400> 3672
 tataacctga ctttttttttc aaaaaaaaaag gattgctttt ttaaacata 49

 <210> 3673
 <211> 51
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (30)..(31)
 <223> t is present or absent.

 <400> 3673
 gctgaattag ttcccttggg tttttttttt tagttaactc ctgatttttg c 51

 <210> 3674
 <211> 50
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (30)..(30)
 <223> a is present or absent.

 <400> 3674
 gataatcaat gctgtaaggg aaaaaaaaaa tggcattaga gatccagacc 50

 <210> 3675
 <211> 42
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(22)
 <223> gt is present or absent.

 <400> 3675
 taaaaccgtc ttgtttgttt gtttacatgg ttttagggc cc 42

 <210> 3676
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature

<222> (21)..(21)
 <223> a is present or absent.

 <400> 3676
 taagcagcta tcacttaaca atacaaaacc agagattatc a 41

 <210> 3677
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 3677
 ccttgaccaa agcctggggg tcagccattc cccarcccct c 41

 <210> 3678
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 3678
 ccttgaccaa agcctggggg cagccattcc ccarcccctc 40

 <210> 3679
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

 <400> 3679
 ataaaaagag ggggaaaaaa agaaggcagt cgctgcaggg c 41

 <210> 3680
 <211> 42
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(22)
 <223> ct is present or absent.

 <400> 3680
 gtggaccct gagactgact ctttccagat cttgttaggg tt 42

 <210> 3681

<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> g is present or absent.

<400> 3681
agactctgga aagkmggggg gataagaaca cagccccagc a 41

<210> 3682
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 3682
gggccccacc tgctgaagag aggggggggtg gggtttgccc c 41

<210> 3683
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 3683
ttttctccaa taatacaagt agaggatcgg gttaaaatag g 41

<210> 3684
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 3684
tgtagcctat tcctataara atgcaccatt gcttcscatt a 41

<210> 3685
<211> 41
<212> DNA

<213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> c is present or absent.

 <400> 3685 41
 tttaattggc ccagccatgc ctttggtggc ttttgtcatt g

 <210> 3686
 <211> 44
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(24)
 <223> aaag is present or absent.

 <400> 3686 44
 catcctgctg aaggagaaag aaagcaccaa tggcccaagc ccta

 <210> 3687
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3687 41
 agaatgttg cccctcccc ytyctgcatc ctctgcagaa g

 <210> 3688
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3688 41
 aatgttg gcc cctccccyt yctgcatcct ctgcagaagc c

 <210> 3689
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3689 41
 ggccagtga gtagcgggcag rtcgccccaa tagcagcgtg c

 <210> 3690
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3690 41
 agagctgggg tcgtgcctcc rgctgggcaa ctgcctgtct c

<210> 3691
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3691
 ctctgtcccg tcccctgccc rgtctcacca tggccttctg g 41

<210> 3692
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3692
 ccccgggcca aggacctccc rttccaggca tccaggctgt c 41

<210> 3693
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3693
 cagcttggtg gaggccgctg rggacctggc ccaggaggta c 41

<210> 3694
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 <212> DNA
 <213> Homo sapiens

 <400> 3694
 gccggagggt cacggaaact rtttgaagaa gtaggagtta g 41

<210> 3695
 <211> 41
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 <213> Homo sapiens

 <400> 3695
 tgcggaggat cagaggcaca ygcaggagca aggcagaggg g 41

<210> 3696
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3696
 accggacctt cgaggagctc rccctgctga gggatgtccg g 41

<210> 3697
 <211> 41
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 <213> Homo sapiens

 <400> 3697
 tttttttttt tttttttttt wtaagagatg gagtctcact c 41

<210> 3698
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3698
 gttgcccagg ctggactgca rtggygagat cttggctcac t 41

 <210> 3699
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 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3831
 atattatttt actgtcttag sctgtatatt aagaaactga c 41

 <210> 3832
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3832
 gcggtggaca tagaaagccc rgaagcttct tgatgtgctt a 41

 <210> 3833
 <211> 42
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(22)
 <223> tt is present or absent.

 <400> 3833
 ttttgcattt gtgtgtgagt ttgtttcaga ggttttgcct tt 42

 <210> 3834
 <211> 51

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (30)..(31)
 <223> a is present or absent.

<400> 3834
 taaagtataa taataaaacg aaaaaaaaaa agaaattcct cctgtacaga g 51

<210> 3835
 <211> 52
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (31)..(32)
 <223> a is present or absent.

<400> 3835
 ctcttgcaaa taggtatgac aaaaaaaaaa aatcaactga gtacaaaaag ct 52

<210> 3836
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

<400> 3836
 gtactagagt gcactccttt tgcaacagga cggccaaagg a 41

<210> 3837
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

<400> 3837
 tcaatgcac tttttttttt ngaaatggag tctcgctctg t 41

<210> 3838
 <211> 41
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 3838
 gtatatggta tttttttttt tagacctctt agaaagctag t 41

 <210> 3839
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

 <400> 3839
 atttttttta aaggtatcca atagtcattc tcaatttctt c 41

 <210> 3840
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 3840
 ggatattctg gggttttttt tctacaaact caagtttttt g 41

 <210> 3841
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 3841
 gtggaataat ttttgactta tgcatttggt caaataaaat t 41

 <210> 3842
 <211> 55
 <212> DNA
 <213> Homo sapiens

 <220>

<221> misc_feature
 <222> (32)..(35)
 <223> t is present or absent.

 <400> 3842
 tatgtcgcagt aacatatgtc tttttttttt tttttctgaa tgccagcttg cagtt 55

 <210> 3843
 <211> 43
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(23)
 <223> cat is present or absent.

 <400> 3843
 tgaataatag tcatcatcat cataattatt atcattacaa cta 43

 <210> 3844
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> t is present or absent.

 <400> 3844
 tcagggtttt ctttttttwt tctttatggt agaaattgga c 41

 <210> 3845
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> a is present or absent.

 <400> 3845
 actccatctc aaaaaaaaaa agagagaaaa aaattctgca t 41

 <210> 3846
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)

<223> a is present or absent.

<400> 3846
caatacttttg caaaaaaaaaa agatctttcc ctgatgatat t 41

<210> 3847
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> t is present or absent.

<400> 3847
atactgaatg gttttttttt tctcctttct catatgacct c 41

<210> 3848
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 3848
atccttggac caaaaaaaaaa actttatctg tgctttgcgt g 41

<210> 3849
<211> 41
<212> DNA
<213> Homo sapiens

<400> 3849
gctttggagc catagtcatg yactcaaat ttattttatc t 41

<210> 3850
<211> 41
<212> DNA
<213> Homo sapiens

<400> 3850
tactctttac ctgtgaagag yagaacatga agaaatctac t 41

<210> 3851
<211> 41
<212> DNA
<213> Homo sapiens

<400> 3851
cttgctggag gaaggggtgct mgaaaatata ccaaatccaa g 41

<210> 3852
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3852
 gaaataatat tcaagttctg maataatatc atgacctata g 41

 <210> 3853
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3853
 gatatgaatc agaattcatc ygtgtctcaa gaaaaggcca t 41

 <210> 3854
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3854
 tgtctcaaga aaaggctcatg ygataaatta agttctgcta g 41

 <210> 3855
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3855
 aattaattta tcatcatctg rtcaccattt cacacaactc a 41

 <210> 3856
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3856
 cataagttga aatgtcccca rtgattcagc tgatgcgcgt t 41

 <210> 3857
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (21)..(21)
 <223> g is present or absent.

 <400> 3857
 gctctctggc ttgcacgggg gactagaggt tagtctcacc t 41

 <210> 3858
 <211> 41

<212> DNA
 <213> Homo sapiens

 <400> 3858
 attaactatt caaaatactt yggaaatttg acatctcctt a 41

 <210> 3859
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3859
 ttagctctct tactgcttca yagtggaga atcaaatact t 41

 <210> 3860
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3860
 aaacactctg aatattaaac ygctcctgga accacagctc a 41

 <210> 3861
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3861
 agttgtcctt gccctttgcc yttctagagg tgcaaaaaat a 41

 <210> 3862
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3862
 tgcaggaagt taggaaacta ytataaatcg gaagaaggga a 41

 <210> 3863
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3863
 caaaccaacc tgatttataa rcataagaac attctactac t 41

 <210> 3864
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3864
 gtttggtggg ctagggctac rgtaggagtg ggaacaagag a 41

 <210> 3865

<211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3865
 caacagtaaa gttacaatct raaaggaatg ctctctgttt a 41

 <210> 3866
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3866
 tttccctgag gaatggttat yctctgtgtt ccttgagtcc a 41

 <210> 3867
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3867
 ccacatcagg ttttccccag rcaccttggg acagtttgaa a 41

 <210> 3868
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3868
 aaaaccctaa ccattgacac rtgtgaatgt tttcctgggg a 41

 <210> 3869
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3869
 cgtgcctcct ttctactggt rtttgtctta attggccatt t 41

 <210> 3870
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3870
 ctgacctgtt tttggctgac rggttttagt tcctcccctc a 41

 <210> 3871
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3871
 tcttgggtatt aaaagatcca ragagatagg aatatgtaat t 41

<210> 3872
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3872
 tgcacttagg aaaaaaaca y atggaaatg tgtaaaatat a 41

 <210> 3873
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3873
 tgtaaaatat actttttttt waaaaaaaaag gacacattta t 41

 <210> 3874
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3874
 aggacacatt tattcagcat yatgatcaga ctattacatt t 41

 <210> 3875
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3875
 caccttggtt tcatggtttg rcaaagtact ggcctgtacc a 41

 <210> 3876
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3876
 caccaacaaa tatctttttc rcagttgggt gggcatctgg t 41

 <210> 3877
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3877
 agactctgac ttagacatga yggcagggga aagagagact t 41

 <210> 3878
 <211> 41
 <212> DNA
 <213> Homo sapiens

 <400> 3878
 taaaatacag atgtgttgta mtaagttctg caagcctttg g 41

<210> 3879
<211> 41
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)..(21)
<223> a is present or absent.

<400> 3879
ggggagggtgt ccaggcacga acatggagag ctggacttga t 41

<210> 3880
<211> 41
<212> DNA
<213> Homo sapiens

<400> 3880
ggaggtgtcc aggcacgaac wtggagagct ggacttgata c 41

<210> 3881
<211> 41
<212> DNA
<213> Homo sapiens

<400> 3881
tgcagccttg atcttctggg ytcaagcgat cctcctgcct c 41

<210> 3882
<211> 41
<212> DNA
<213> Homo sapiens

<400> 3882
cttgataaaa gtctgagagc staaatatgg tctccaagtg g 41

<210> 3883
<211> 41
<212> DNA
<213> Homo sapiens

<400> 3883
gtccttcaat tttgtggtga rcttaaaaac aggactctaa a 41

<210> 3884
<211> 41
<212> DNA
<213> Homo sapiens

<400> 3884
tattaagtgg tgtgttaaag rttgtgctat aatgaattgt a 41

<210> 3885
<211> 44

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(24)
 <223> aaag is present or absent.

<400> 3885
 aagggctgga agagtgaaag aaaggaggct atttgctccc agac 44

<210> 3886
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 3886
 aagggctgga agagtgaaag gaggctattt gctcccagac 40

<210> 3887
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3887
 gcagcctctc tggcctatag kttgatttat aaggggctgg t 41

<210> 3888
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3888
 ttgatttata aggggctggg ytcccagaag tgaagagaaa t 41

<210> 3889
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3889
 aacaccctta ttttatagat ycaatgactg agtcaagaat t 41

<210> 3890
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3890
 cagcatctct acttatacca ygctctgctt taaggttctc t 41

<210> 3891
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3891
 actcaaata gtaggtaggag yagagacaat tcaatacaga c 41

<210> 3892
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3892
 gagcagagac aattcaatac rgacagaagt cttagatgag a 41

<210> 3893
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3893
 tagttttgcc atgtagaatt saaaaagtga tagatggtgt t 41

<210> 3894
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3894
 gttaagcctg cttcaatcaa rttagttata ttcttgttct a 41

<210> 3895
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3895
 ttgacttagc gacactgtta rcatacttat ctttcctgtg t 41

<210> 3896
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3896
 ccttgctgca cctgtgctgt mtaagtttgg cttattatag t 41

<210> 3897
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3897
 agtagagaca ggctggcgat sacaccggac agagctaact g 41

<210> 3898
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3898
 aacagaatca tgaaattaag ytgtaatga tttgaaggcc t 41

<210> 3899
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3899
 aggataaatt gtttatgtcg yctgggtacc atcatggcca t 41

<210> 3900
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3900
 ctggttgact ccagatatca yagaaggagt tgtaaaattc t 41

<210> 3901
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3901
 aatacacagg aagcttctaa rtaaagtaag gaagtcactc t 41

<210> 3902
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3902
 ctaaagagtg aatggattca rtacgtccct tggaactcac c 41

<210> 3903
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3903
 ctgagggtcc agcttatctc wtagagatgt ttacttagtc t 41

<210> 3904
 <211> 41
 <212> DNA
 <213> Homo sapiens

<400> 3904
 tgttagaaga aaaaaagggtt yatattacaa gagggctctga c 41

<210> 3905
 <211> 41
 <212> DNA
 <213> Homo sapiens